

=> b reg  
FILE 'REGISTRY' ENTERED AT 16:03:21 ON 26 DEC 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 DEC 2007 HIGHEST RN 959463-53-7  
DICTIONARY FILE UPDATES: 25 DEC 2007 HIGHEST RN 959463-53-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

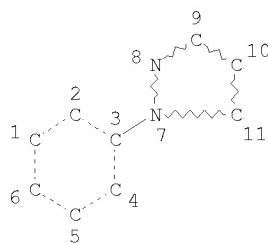
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta 18  
L4 STR



#### NODE ATTRIBUTES:

CONNECT IS E3 RC AT 6  
CONNECT IS E3 RC AT 11  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 11

#### STEREO ATTRIBUTES: NONE

L6 134263 SEA FILE=REGISTRY SSS FUL L4  
L8 49433 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND 16.165.12/RID

=> d bib abs hitrn fhitstr 118 tot  
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:n

=> b hcap  
FILE 'HCAPLUS' ENTERED AT 16:04:05 ON 26 DEC 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is  
held by the publishers listed in the PUBLISHER (PB) field (available  
for records published or updated in Chemical Abstracts after December  
26, 1996), unless otherwise indicated in the original publications.  
The CA Lexicon is the copyrighted intellectual property of the  
the American Chemical Society and is provided to assist you in searching  
databases on STN. Any dissemination, distribution, copying, or storing

of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 26 Dec 2007 VOL 147 ISS 26  
FILE LAST UPDATED: 25 Dec 2007 (20071225/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitstr l18 tot

L18 ANSWER 1 OF 2 NCAPLUS COPYRIGHT 2007 ACS on STN  
AN 2004:841759 NCAPLUS  
DN 141:50163  
TI Preparation of arylpyrazoles as serotonin 5-HT2A and 5-HT2C receptor antagonists  
II Schiemann, Kai; Ackermann, Karl-August; Arlt, Michael;  
Bartoszky, Dieter; Schatz, Oliver; Van Amsterdam,  
Christoph; Bartoszky, Gerd; Seyfried, Christoph  
PA Merck Patent GmbH, Germany  
SO Ger. Offen., 102 pp.  
CODEN GWXXXB

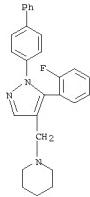
DT	Patent Name	Patent Number	Kind	Date	APPLICATION NO.	DATE
PI	DE-10355575	A1	200401014	200309-1015575		20030905
	AU200228120	A1	200401021	2004AU-0228120		20040309
	CA-2552101	A1	200401021	2004CA-2552101		20040308
	WO2004089931	A1	200401021	2004WAO-EPO2353		20040308
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, CA, CN, CO, CR, CY, DE, DK, DO, EC, EG, ES, FI, FR, GE, GT, HK, HU, ID, IL, IN, IS, IT, JP, KZ, KR, LV, MD, ME, MK, MN, MW, MX, NE, NA, NL, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SI, SL, SY, TR, TW, VA, US, UZ, VE, VN, YU, ZA, ZM, ZW RM: BG, DE, DK, ES, FR, GB, GR, IE, IT, LU, NL, PT, SE, ES, FI, FR, GB, GH, HU, IE, IT, LU, MC, NL, PL, PT, SK, TR, BF, BJ, CG, CI, CM, GA, GN, GO, GL, MR, NE, SN, TG, TD					
EP-BP	EP-10355575	A	20060223	2004EP-0719277		20040308
	R1: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT	A	20060411	2004BR-009164		20040308
	IE, SI, FL, RO, CY, TR, BG, CZ, HU, PL, SK	A	20060411	2004BR-009164/00572		20040308
	BR2005062230	T	20060928	2006BR-005484		20040308
	US2006244194	A1	20061123	2005US-0552965		20051005
PRAT	DE-10355572	A	20030405			
	2004WAO-EPO2353	W	20040308			
OS	NAMPAT 141:350163					

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

**AB** Preparation of title compds. I ( $X = \text{CH}_2$ ;  $\text{R}_1 = \text{H}$ , halo,  $(\text{CH}_2)_n\text{NH}_2$ , etc.;  $\text{R}_2 = (\text{CH}_2)_n\text{NHR}$ ,  $(\text{CH}_2)_n\text{Ar}$ , cycloalkyl,  $\text{R}_3 = \text{R}_4 = \text{H}$ ,  $(\text{CH}_2)_n\text{NHCO}$ , CHO, etc.);  $n = 0-5$ ;  $\text{Ar} = (\text{un})\text{substituted Ph}$ ;  $\text{Het} = (\text{un})\text{substituted monocyclic, bicyclic-heterocycle}$ ) and their pharmaceutically acceptable salts were prepared. For example, sodium triacetoxyborohydride mediated reductive amination of 1-methyl-piperazine and aldehyde II, e.g., prepared from 2-hydroxy-4,4-dimethyl-3-pentenyl ester I, with  $\text{NaBH}_4$  in  $\text{CH}_3\text{OH}$  afforded the borohydride salt of arylglycine III. In 5-HT<sub>2A</sub> receptor binding assays, 167-examples of comds. I showed IC<sub>50</sub> values ranging from 0.015-4.781-7M. Compd. I are claimed suitable as ligands of 5-HT receptors.

IT	508219-18-7P	508219-9-9P	508219-10-1P
	508219-13-4P	508219-14-5P	508219-15-6P
	508219-16-7P	508219-17-8P	508219-19-9P
	508219-19-0P	508219-20-3P	508219-22-5P
	508219-23-6P	508219-24-7P	508219-27-0P
	508219-31-6P	508219-32-7P	508219-33-8P
	508219-34-9P	508219-35-0P	508219-36-1P
	508219-40-7P	508219-42-9P	508219-44-1P
	508219-46-3P	508219-47-4P	508219-49-6P
	508219-73-6P	508219-86-1P	770739-50-9P
	770739-73-6P	770739-84-9P	770739-93-0P
	770740-20-0P	770740-35-7P	770740-36-3P

L18 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)  
(prep. of arylpyrazoles as serotonin 5-HT2A and 5-HT2C receptor  
antagonists)  
RN 508219-08-7 HCAPLUS  
Piperide, 1-[1-(1,1'-biphenyl)-4-yl]-5-(2-fluorophenyl)-1H-pyrazol-4-  
yl|methyl| (CA INDEX NAME)

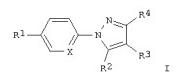


L18 ANSWER 1 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)

L18 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2007 ACS on STM  
AN 2004:841772 HCPLUS

AN 141-332186 RCPA PLUS  
II Preparation of arylpyrazoles as serotonin 5-HT2A and/or 5-HT2C receptor antagonists.  
IN Schadt, Oliver; Arlt, Michael; Finsinger, Dirk; Schiemann, Kai; Van Amsterdam, Christoph; Bartoszyk, Gerd; Seyfried, Christoph

PA Merck Patent GmbH, Germany  
SO Ger. Offen., 78 pp.



**AB** Title compds.: R<sub>1</sub> = H, A, halo, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CF<sub>3</sub>, NO<sub>2</sub>, cyano, C(=NH)NO, OCF<sub>3</sub>; R<sub>2</sub> = (CH<sub>2</sub>)<sub>n</sub>Het, (CH<sub>2</sub>)<sub>n</sub>Ar, cycloalkyl, CF<sub>3</sub>; R<sub>3</sub>, R<sub>4</sub> = H, (CH<sub>2</sub>)<sub>n</sub>COS, (CH<sub>2</sub>)<sub>n</sub>CH Het, CH<sub>2</sub>O, (CH<sub>2</sub>)<sub>n</sub>OR, CH<sub>2</sub>NHOA, etc.; R<sub>5</sub> = H, Ar = alkyl, alkoxy, alkylidene, alkoxalkyl; Ar = (substituted) Ph; Het = (aromatic heterocyclic); R = (substituted) phenyl, (substituted) naphthyl, (substituted) benzodifuran residue; X = N, CH; with propanoic, were prepared. Thus: (1-*p*-fluorophenyl-4-*yl*-5-furan-2-yl-1M-propanoyl-4-yl-methoxy)methyl-1-methylpyrrolidin-4-yl-1-amine

IT showed 5-HT<sub>2A</sub> activity with IC<sub>50</sub> = 5.14E-10.  
 508219-09-8 508219-31-6 770739-06-5  
 770739-08-7 770739-09-8  
 770739-10-9 770739-11-0  
 770739-13-4 770739-14-5 770739-15-6  
 770739-16-7 770739-17-8 770739-18-9  
 770739-19-0 770739-20-3 770739-23-4  
 770739-22-5 770739-23-6 770739-24-7  
 770739-25-8 770739-26-9 770739-27-0  
 770739-28-0 770739-29-1 770739-30-5  
 770739-31-6 770739-32-7 770739-33-8  
 770739-34-9 770739-35-0 770739-36-1

L18 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

770739-37-2 770739-38-3 770739-39-4  
 770739-40-7 770739-41-8 770739-42-9  
 770739-43-3 770739-44-1 770739-45-2  
 770739-46-4 770739-47-5 770739-48-6  
 770739-49-7 770739-50-9 770739-51-0  
 770739-52-2 770739-53-2 770739-54-3  
 770739-55-5 770739-56-5 770739-57-6  
 770739-59-8 770739-60-1 770739-61-2  
 770739-62-4 770739-66-0 770739-67-8  
 770739-68-9 770739-69-0 770739-70-3  
 770739-71-4 770739-72-5 770739-73-6  
 770739-74-7 770739-75-8 770739-76-9  
 770739-77-9 770739-78-1 770739-79-2  
 770739-79-3 770739-80-4 770739-81-7  
 770739-83-5 770739-84-9 770739-85-0  
 770739-86-1 770739-87-2 770739-89-4  
 770739-90-7 770739-91-8 770739-93-0  
 770739-94-1 770739-95-2 770739-96-3  
 770740-00-5 770740-01-6 770740-02-8  
 770740-03-7 770740-04-0 770740-05-1  
 770740-06-2 770740-07-3 770740-08-4  
 770740-09-5 770740-10-8 770740-11-9  
 770740-12-2 770740-14-2 770740-15-3  
 770740-16-4 770740-17-5 770740-18-6  
 770740-19-7 770740-20-0 770740-21-1  
 770740-22-3 770740-23-3 770740-24-4  
 770740-25-5 770740-26-6 770740-27-7  
 770740-28-8 770740-29-2 770740-30-2  
 770740-31-5 770740-32-6 770740-35-7  
 770740-36-8 770740-37-9 770740-38-0  
 770740-39-1 770740-40-4 770740-41-5  
 770740-42-6 770740-43-7 770740-44-8  
 770740-45-9 770740-46-0 770740-47-1  
 770740-48-3 770740-50-6 770740-52-8  
 770740-53-9 770740-54-0 770740-55-1  
 770740-56-2 770740-57-3 770740-59-5  
 770740-60-3 770740-61-9 770740-62-0  
 770740-63-4 770740-64-2 770740-65-3  
 770740-66-5 770740-67-6 770740-68-6  
 770740-69-7 770740-70-0 770740-71-1  
 770740-72-2 770740-73-3 771529-15-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses); (preparation of arylpyrazoles as serotonin 5-HT2A and/or 5-HT2C receptor antagonists)

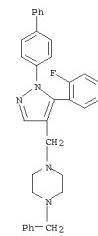
IT 508219-09-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses); (preparation of arylpyrazoles as serotonin 5-HT2A and/or 5-HT2C receptor antagonists)

RN 508219-09-8 HCAPLUS

CN Piperazine, 1-[1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-ylmethyl]-4-(phenylmethyl)- (CA INDEX NAME)

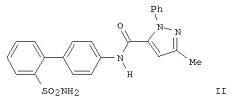
L18 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



10 / 551905

=> d bib abs hitstr 125 tot

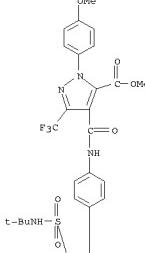
L25 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1999:9820 HCAPLUS  
 DN 130:81510  
 TI Preparation of phenylpyrazolecarboxamides as coagulation factor Xa  
 I1 Lam, Patrick Yuk-sun; Pinto, Donald Joseph Philip; Pruitt, James  
 Galembo, Robert Anthony, Jr.; Dominguez, Celia; Fevig, John Matthew; Han,  
 Qi; Lam, Patrick Yuk-sun; Pinto, Donald Joseph Philip; Pruitt, James  
 Russel, Quan, Mimi Lifen  
 PA The Du Pont Merck Pharmaceutical Company, USA  
 SO PCT Int'l Appl. 259 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 PI WO--9857937 A2 19981223 1998WO-US12681 19980618  
 WO--9857937 A3 19990318  
 W: AU, BR, CA, CN, CZ, EE, HU, IL, JP, KR, LT, LV, MX, NO, NZ, PL,  
 SG, SI, SK, UA, VN, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM  
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
 PT, SE  
 ZA--9805251 A 19991217 1998ZA-0005251 19980617  
 CA--2290982 A1 19981223 1998CA-2290982 19980618  
 AU--9801502 A 19990104 1998AU-0081503 19980618  
 US--9916124 A 19990107 1998US-0099162 19980618  
 EP--991625 A2 20000412 1998EP-0991625 19980618  
 EP--991625 B1 20050601  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,  
 SI, LT, LV, FI, RO  
 BR--980151 A 20000808 1998BR-0010151 19980618  
 ES--990584 A 20000815 1998EE-0000584 19980618  
 SI--20208 A 20001031 1998SI-0020043 19980618  
 HU2000003906 A2 20010528 2000HU-0003906 19980618  
 JP2002507968 T 20020412 1999JP-0007968 19980618  
 AT--991605 T 20010412 1998AT-0991605 19980618  
 ES--223806 T3 20051001 1998ES-0931355 19980618  
 PT--991625 T 20051031 1998PT-0931355 19980618  
 US--6403620 B1 20020611 1999US-0393782 19990910  
 MX--9910588 A 20010910 1999MX-000588 19991117  
 LV--9910588 B 20010910 1999LV-0000588 19991116  
 NO--9906316 A 19991217 1999NO-0006316 19991217  
 LT--9914702 B 20000925 1999LT-0000146 19991217  
 US2003092740 A1 20030515 2002US-0150698 20020516  
 US--6602895 B2 20030805  
 PRAT 19990101-09 P 19990109  
 1997US-0978885 A 19980619  
 1998US-076691P P 19980227  
 1998US-0099752 A3 19980618  
 1998WO-US12681 W 19980618  
 1998US-0393782 A3 19990910  
 OS MARPAT 130:81510  
 GI



AB EZIM (I; E = halo, OH, alkyl, alkoxy, etc.; M = ZZAB; A = (un)substituted carbocyclicene, -heterocyclicene; B = H, Y; XY: X = alkylene, CO, O, (un)substituted NH, etc.; Y = amino(alkyl), substituted carbocyclic, -heterocyclic, etc.; Z = bond, (heteroatom or functional group)-interrupted) alkylene, etc.; Z1 = (un)substituted Ph. 22 = N-containing

L25 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

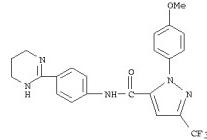
PAGE 1-A



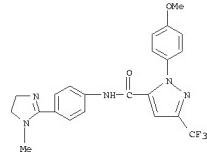
PAGE 2-A



L25 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 heteroarylene, etc.) were prep'd. Thus, MeCOCH<sub>2</sub>C(NMe)<sub>2</sub>CO<sub>2</sub>Et was cyclocondensed with PhNNHNH<sub>2</sub> and the product amided by 4-(CH<sub>2</sub>)<sub>2</sub>CH=CH<sub>2</sub>N(Me)<sub>2</sub>Ph-3 to give, after deprotection, title compd. II. Due to its low activity, I were given.  
 IT 218630-96-7B 218631-00-6P  
 PU: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIO (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of phenylpyrazolecarboxamides as coagulation factor Xa inhibitors)  
 RN 218630-96-7 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-(4-methoxyphenyl)-N-[4-(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 218631-00-6 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-[4-(4,5-dihydro-1-methyl-1H-imidazol-2-yl)phenyl]-1-(4-methoxyphenyl)-3-(trifluoromethyl)- (CA INDEX NAME)



IT 218631-99-3B  
 PU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of phenylpyrazolecarboxamides as coagulation factor Xa inhibitors)

RN 218631-99-3B HCAPLUS  
 CN 1H-Pyrazole-5-carboxylic acid, 4-[(2-((1,1'-dimethylethyl)amino)sulfonyl)[1,1'-(biphenyl)-4-yl]amino]carbonyl]-1-(4-methoxyphenyl)-3-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

L25 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:297223 HCAPLUS  
 DN 127:33930  
 TI Remarkably mild and simple preparations of sulfinates, sulfonyl chlorides, and sulfonamides from thioanisoles.

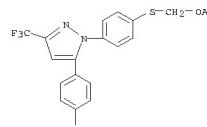
AU Deissenbauer, Michael; Gauthier, Jacques Yves  
 CS Medicinal Chemistry Department, Merck Frosst Center Therapeutic Research, Quebec, QC H9R 4P8, Can.

SO Synlett (1997), (4), 375-377  
 CCR: SYNLETS; ISSN: 0936-5214

PB Thiones  
 DT Journal  
 LA English  
 OS CASREACT 127:33930  
 AB Two high-yielding procedures to convert thioanisoles into versatile starting materials. The procedures, developed by strategically taking advantage of the Pummerer reaction, were developed by strategically taking advantage of the Pummerer reaction. The procedures are applicable to a broad variety of substrates, including electron-rich arenes and tolerate a wide variety of common functional groups. Considering the readily availability of thioanisoles as stable starting materials, one or the other of these procedures provides a mild, simple and versatile access to the preparation of sulfinates, sulfonyl chlorides, and sulfonamides from a common intermediate.

IT 199711-63-8P  
 PU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of sulfonyl chlorides and sulfonamides from thioanisoles)

RN 199711-63-8 HCAPLUS  
 CN Methanol, [(4-[S-(4-methoxyphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl)thio]-, acetate (ester) (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 15:11:07 ON 26 DEC 2007)

FILE 'HCAPLUS' ENTERED AT 15:12:53 ON 26 DEC 2007  
L1 1 US20060276650/PN

FILE 'REGISTRY' ENTERED AT 15:13:50 ON 26 DEC 2007

FILE 'HCAPLUS' ENTERED AT 15:13:53 ON 26 DEC 2007  
L2 TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 15:13:53 ON 26 DEC 2007  
L3 5 SEA L2  
L4 STR  
L5 50 L4  
L6 134263 L4 FULL  
E PYRAZOLE/CN  
L7 1 E3  
L8 49433 L6 AND 16.165.12/RID

FILE 'HCAPLUS' ENTERED AT 15:20:34 ON 26 DEC 2007  
L9 12683 L8  
L10 7656 L9 AND PD<=20030308  
E SCHADT O/AU  
L11 23 E3-4  
E SCHIEMANN K/AU  
L12 42 E3-4  
E VAN AMSTERDAM C/AU  
L13 53 E3-6  
E BARTOSZYK G/AU  
L14 122 E3-8  
E SEYFRIED C/AU  
L15 230 E3-6,E12-14

FILE 'HCAPLUS' ENTERED AT 15:23:47 ON 26 DEC 2007  
L16 34802 MERCK/CS,PA  
L17 120 L9 AND L11-16  
L18 2 L9 AND L11-15  
L19 118 L17 NOT L18  
L20 12681 L9 NOT L18  
L21 69 L19 AND L10  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 15:27:04 ON 26 DEC 2007  
L22 538 E1-538  
DEL SEL Y  
L23 5 L22 AND (C30H29F3N4O6S OR C22H20F3N5O2 OR C28H21F4N5O2 OR C20H1  
SEL RN 2-5  
L24 4 E1-4 AND L23

FILE 'HCAPLUS' ENTERED AT 15:50:09 ON 26 DEC 2007  
L25 2 L24

=> b reg

FILE 'REGISTRY' ENTERED AT 15:30:20 ON 27 DEC 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 26 DEC 2007 HIGHEST RN 959588-76-2  
DICTIONARY FILE UPDATES: 26 DEC 2007 HIGHEST RN 959588-76-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

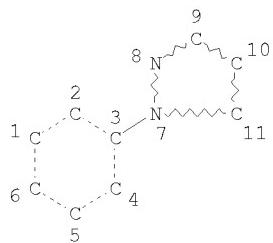
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta 12  
L1 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 6  
CONNECT IS E3 RC AT 11  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

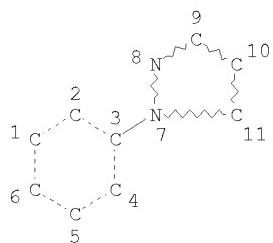
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
L2 134263 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 423477 ITERATIONS  
SEARCH TIME: 00.00.02

134263 ANSWERS

=> d que sta 15  
L1 STR



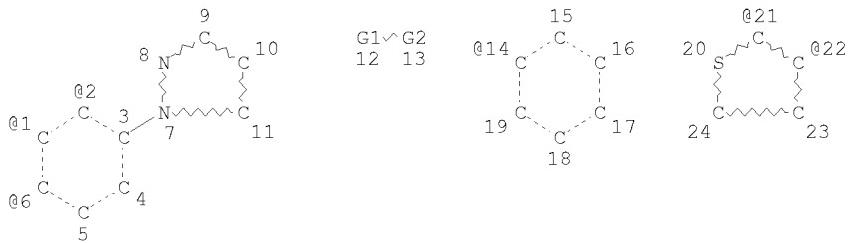
NODE ATTRIBUTES:

CONNECT IS E3 RC AT 6  
CONNECT IS E3 RC AT 11  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
L2 134263 SEA FILE=REGISTRY SSS FUL L1  
L3 STR



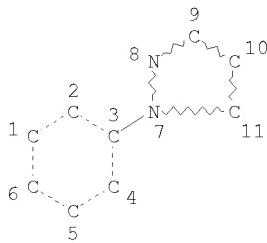
VAR G1=2/1/6  
VAR G2=14/21/22  
NODE ATTRIBUTES:  
CONNECT IS E3 RC AT 6  
CONNECT IS E3 RC AT 11  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE  
L5 882 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

100.0% PROCESSED 134263 ITERATIONS 882 ANSWERS  
SEARCH TIME: 00.00.01

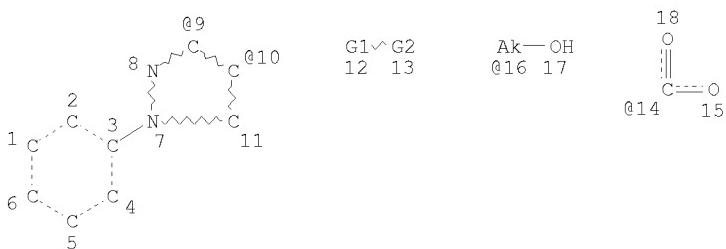
=> d que sta 134  
L1 STR



NODE ATTRIBUTES:  
CONNECT IS E3 RC AT 6  
CONNECT IS E3 RC AT 11  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
L2 134263 SEA FILE=REGISTRY SSS FUL L1  
L32 STR



```

VAR G1=9/10
VAR G2=14/16/CHO
NODE ATTRIBUTES:
CONNECT IS E3 RC AT 6
CONNECT IS E3 RC AT 11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

```

```

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

```

```

STEREO ATTRIBUTES: NONE
L34      8106 SEA FILE=REGISTRY SUB=L2 SSS FUL L32

```

```

100.0% PROCESSED 123705 ITERATIONS          8106 ANSWERS
SEARCH TIME: 00.00.01

```

```

=> b hcap
FILE 'HCAPLUS' ENTERED AT 15:30:55 ON 27 DEC 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

```

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 27 Dec 2007 VOL 147 ISS 26  
FILE LAST UPDATED: 26 Dec 2007 (20071226/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitstr l13 tot

L13 ANSWER 1 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN  
 AN 2004:841775 HCPLUS  
 DN 141:350163  
 TI Preparation of arylpyrazoles as serotonin 5-HT2A and 5-HT2C receptor antagonists  
 IN Schiemann, Kai; Ackermann, Karl-August; Arit, Michael;  
 Finsinger, Dirk; Schadt, Oliver; Van Amsterdam, Christoph;  
 Merck Patent GmbH, Germany  
 SG Ger. Offen., 102 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

---

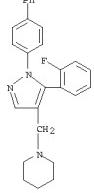
PI DE-10315572 A1 20041014 2003DE-1015572 20030405  
 AU20042282120 A1 20041021 2004AU-02282120 20040308  
 CA--2521201 A1 20041021 2004CA-2521201 20040308  
 WO200408331 A1 20041021 2004W0-E08331 20040308  
 W: AI, AG, AL, AM, AT, AU, A2, BA, BE, BG, BR, BY, BZ, CZ, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LZ, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY,  
 T, T2, T3, T4, T5, T6, T7, T8, US, VN, ZA, ZM, ZW  
 RW: BM, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, EG, EZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
 SK, TR, BF, BJ, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,  
 T, TG  
 EP---1626967 A1 20060222 2004EP-0718277 20040308  
 R: AT, BE, CH, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, PL, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 BR2004009164 A 20040116 2004BR-009164 20040308  
 CN---1762651 A 20061503 2006CN-1762651 20040308  
 JP2006522035 T 20060928 2006JP-0504584 20040308  
 US2006264419 A1 20061123 2005US-0552065 20051005  
 PRAI 2003DE-1015572 A 20030405  
 2004W0-BP02353 W 20040308  
 OS MARPAT 141:350163  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

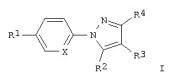
AB Preparation of title compds. I (X = CH, N; R1 = H, halo, (CH2)nHet, etc.; R2 = (CH2)nHet, (CH2)nAr, cycloalkyl, etc.; R3 = R4 = H, (CH2)nCOHes, CHO, (CH2)nOS, (CH2)nHet, CH(=O)A, etc.); II = R1 = 5-oxo-5,6-dihydro-1H-pyrazole-1,4-dione, substituted 5-oxo-5,6-dihydro-1H-pyrazole-1,4-dione, bicyclic heterocyclics and their pharmaceutically acceptable salts were prepared. For example, sodium triacetoxyborohydride mediated reductive amination of 1-methyl-piperazine and aldehyde II, e.g., prepared from 2-fluoro- $\alpha$ , $\gamma$ -dioxo-benzenobutanone Et ester in 4-steps, afforded the dihydrochloride salt of arylpyrazole III. In S-HT2A receptor binding assays, 1*6*-xanthenes of compds. I exhibited IC50 values ranging from 0.015-4.7x10<sup>-6</sup> M. Compds. I are claimed suitable as ligands of 5-HT receptors.

IT 508219-08-7P 508219-09-8P 508219-10-1P  
 508219-13-9P 508219-14-8P 508219-15-9P  
 508219-17-8P 508219-18-7P 508219-19-9P  
 508219-19-9P 508219-20-3P 508219-22-5P  
 508219-23-6P 508219-24-7P 508219-27-0P  
 508219-31-6P 508219-32-7P 508219-33-8P  
 508219-33-8P 508219-34-9P 508219-36-1P  
 508219-36-1P 508219-37-4P 508219-38-2P  
 508219-46-3P 508219-47-4P 508219-49-6P  
 508219-73-6P 508219-86-1P 770739-50-9P  
 770739-73-6P 770739-84-9P 770739-98-5P  
 770740-20-0P 770740-35-7P 774583-04-9P

L13 ANSWER 3 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 yl|methyl|-( CA INDEX NAME)



PI DE-10315569 A1 20041014 2003DE-1015569 20030405  
 AU20042282124 A1 20041021 2004AU-02282124 20040310  
 CA--2521227 A1 20041021 2004CA-2521227 20040310  
 WO200408331 A1 20041021 2004W0-E08331 20040310  
 W: AI, AG, AL, AM, AT, AU, A2, BA, BE, BG, BR, BY, BZ, CZ, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LZ, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY,  
 T, T2, T3, T4, T5, T6, T7, T8, US, VN, ZA, ZM, ZW, AM, AZ,  
 BY, EG, EZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
 SK, TR, BF, BJ, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,  
 T, TG  
 EP---1611122 A1 20060104 2004EP-0718926 20040310  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK  
 BR2004009864 A 20060328 2004BR-009864 20040310  
 CN---1768052 A 20060828 2006CN-1768052 20040310  
 JP2006522035 T 20060928 2006JP-0504620 20040310  
 AT---364601 T 20070715 2004AT-0718926 20040310  
 ES---2287710 T 20071216 2004ES-4718926 20040310  
 US2007013531 A1 20070116 2005US-0552064 20051005  
 PRAI 2003DE-1015569 A 20030405  
 2004W0-BP02353 W 20040310  
 OS MARPAT 141:332186  
 GI



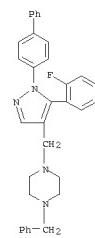
AB Title compds. I; R1 = H, A, halo, (CH2)nAr, cycloalkyl, CF3, NO2, cyano, (CH2)nNONH, OCF3; R2 = (CH2)nAr, (CH2)nAr, cycloalkyl, CF3; R3, R4 = H, (CH2)nCO2RS, (CH2)nCOHes, CHO, (CH2)nOS, (CH2)nHet, CH(=O)A, etc.; R5 = H, A = alkyl, alkoxy, alkenyl, alkoxalkyl; Ar = (substituted) Ph; Het = (aromatic) mono- or bicyclic heterocyclic, heteroatom-containing organic residue; X = N, CH with provisos), were prepared. Thus, (1-(4'-fluorophenyl)-5-*A*-5-aminopyrrolidin-1-yl)methyl(1-methylpyrrolidin-3-yl)amine showed 5-HT2A activity with IC50 = 5.14E-10.

IT 508219-09-8 508219-31-6 770739-06-5  
 770739-07-9 770739-08-7 770739-09-8  
 770739-10-0 770739-11-1 770739-12-2  
 770739-12-4 770739-14-5 770739-15-6  
 770739-16-7 770739-17-8 770739-18-9  
 770739-19-9 770739-20-3 770739-21-1  
 770739-22-5 770739-23-6 770739-24-7  
 770739-25-8 770739-26-9 770739-27-0  
 770739-28-1 770739-29-2 770739-30-5  
 770739-31-6 770739-32-7 770739-33-8  
 770739-34-9 770739-35-0 770739-36-1

L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

770739-37-2 770739-38-3 770739-39-4  
 770739-40-7 770739-41-8 770739-42-9  
 770739-43-3 770739-44-1 770739-45-2  
 770739-46-4 770739-47-5 770739-48-6  
 770739-49-7 770739-50-9 770739-51-0  
 770739-52-2 770739-53-2 770739-54-3  
 770739-55-5 770739-56-5 770739-57-6  
 770739-59-8 770739-60-1 770739-61-2  
 770739-62-4 770739-66-8 770739-67-9  
 770739-68-9 770739-69-0 770739-70-3  
 770739-71-4 770739-72-5 770739-73-6  
 770739-74-7 770739-75-8 770739-76-9  
 770739-77-9 770739-78-1 770739-79-2  
 770739-80-3 770739-81-4 770739-82-7  
 770739-83-5 770739-84-9 770739-85-0  
 770739-86-1 770739-87-2 770739-89-4  
 770739-90-7 770739-91-8 770739-93-0  
 770739-94-1 770739-95-2 770739-96-3  
 770740-00-5 770740-01-6 770740-02-6  
 770740-03-7 770740-04-0 770740-05-1  
 770740-06-2 770740-07-3 770740-08-4  
 770740-09-5 770740-10-8 770740-11-9  
 770740-12-0 770740-14-2 770740-15-3  
 770740-16-5 770740-17-6 770740-18-7  
 770740-20-2 770740-22-2 770740-23-3  
 770740-24-4 770740-25-5 770740-27-7  
 770740-28-8 770740-29-9 770740-30-2  
 770740-33-3 770740-34-4 770740-35-7  
 770740-36-9 770740-38-0 770740-39-1  
 770740-40-3 770740-41-5 770740-42-6  
 770740-43-7 770740-44-8 770740-45-9  
 770740-46-0 770740-47-1 770740-49-3  
 770740-50-4 770740-51-8 770740-53-9  
 770740-54-0 770740-55-1 770740-56-2  
 770740-57-3 770740-59-5 770740-60-8  
 770740-61-0 770740-62-0 770740-63-1  
 770740-64-2 770740-65-3 770740-66-4  
 770740-67-5 770740-68-6 770740-69-7  
 770740-70-0 770740-71-1 770740-72-2  
 770740-73-3 770740-74-5 770740-75-6

L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses); (prepn. of arylpyrazoles as serotonin 5-HT2A and/or 5-HT2C receptor antagonists)

IT 508219-19-9  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses); (preparation of arylpyrazoles as serotonin 5-HT2A and/or 5-HT2C receptor antagonists)

RN 508219-19-9 HCAPLUS  
 CN Piperazine, 1-[[(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl]-4-(phenylmethyl)-( CA INDEX NAME)

10 / 551905

=> d bib abs hitstr l15 tot

L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN

AN

2004:902356 HCAPLUS

DN

141:379921

II Biaryl-substituted pyrazoles as sodium channel blockers, and their pharmaceutical compositions, and use in the treatment of pain  
IN Chakravarty, Prasun K.; Fisher, Michael H.; Parsons, William H.; Tyagarajan, Sriram; Zhou, Bishan  
PA Merck & Co., Inc., USA  
SO Proc. Int. Appl., 104 pp.  
CROSS REF. PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

20040052310

A1

200401028

200400-0509713

200400330

Wt AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LY, MD, MG, MR, MT, MU, MN, NE, NL, NO, NZ, PG, PN, PT, RO, RU, SC, SE, SG, SI, SL, SZ, TJ, TM, TN, TR, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BE, BJ, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG

AU2004220854

A1

200401028

2004-AU-0230854

200400330

CA--2520804

A1

200401028

2004CA-2520804

200400330

EP--1615895

A1

200401028

2004-1615895

200400330

R: BE, CH, DE, ES, FR, GB, IE, IL, IN, LU, NL, SI, NL, PI, IR, SI, LT, LV, RO, MK, CY, AL, TR, BG, CZ, EE, RU, PL, SK

CN--1798738

A

20060705

CN-2004-B0014916

200400330

JP2006522130

I

20060928

2006JP-0509477

200400330

IN2005DN04296

A1

200507831

2005IN-DN04296

20050922

US2005D04296

A1

200507837

2005US-0552024

20051003

PRA1

2003103-601016P

P

200304043

200400330

2004AM-0509713

W

200400330

OS MARPAT 141:379921

GI

(Continued)

L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN

(Continued)

L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

CN 1H-Pyrazole-3-carboxylic acid, 5-(aminocarbonyl)-1-[6-fluoro-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]-, ethyl ester (CA INDEX NAME)

RN 784142-09-2 HCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 5-(aminocarbonyl)-1-[6-fluoro-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]-, ethyl ester (CA INDEX NAME)

RN 784142-20-7 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxylic acid, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]-, 4-methyl ester (CA INDEX NAME)

RN 784142-21-8 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxylic acid, 1-[2',6-bis(trifluoromethoxy)][1,1'-biphenyl]-3-yl]-5-methyl- (CA INDEX NAME)

RN 784142-22-9 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-22-9 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

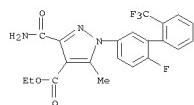
RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluoromethoxy)-2'-(trifluoromethoxy)][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)

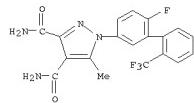
RN 784142-23-0 HCAPLUS

CN 1H-Pyrazole-3,4-dicarboxamide, 5-methyl-1-[6-(trifluorom

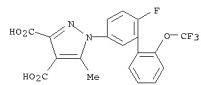
L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 784142-28-5 HCAPLUS  
CN 1H-Pyrazole-3,4-dicarboxamide, 1-(6-fluoro-2'-(trifluoromethyl)(1,1'-biphenyl)-3-yl)-5-methyl- (CA INDEX NAME)



RN 784142-29-6 HCAPLUS  
CN 1H-Pyrazole-3,4-dicarboxylic acid, 1-(6-fluoro-2'-(trifluoromethoxy)(1,1'-biphenyl)-3-yl)-5-methyl- (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 2003:279562 HCAPLUS  
DN 138:304276  
TI Preparation of pyrazoles as glycine transporter protein inhibitors for the treatment of neurodegenerative diseases  
PA Merck Patent G.m.b.H., Germany; Yamamoto Pharmaceutical Co.  
SO Ger. Offen., 62 pp.  
CODEN: GWXXBX

DT Patents  
LA German  
PAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI A1 20030410 2001DE-1049370 20011006

WO2003031431 A1 20030515 2002W0-EP10172 20020911

WO2003031435 A8 20030515

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DN, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KE, LC, LK, LR, LS, LY, MA, MD, ME, MG, MT, MU, MW, MX, MY, NO, NZ, OM, PH, PL, PT, RO, RS, SE, SI, SK, SR, TJ, TM, TN, TR, TZ, VE, VN, YU, ZA, ZM, ZW

RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IS, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CO, CI, CM, GN, GO, GW, ML, MR, NE, SN, TD, TG

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

AU2002342675 A1 20030422 2002AU-0342675 20020911

PRAT 2001DE-1049370 A 20011006

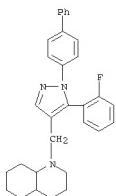
2002W0-EP10172 W 20020911

OS MARPAT 138:304276

GI

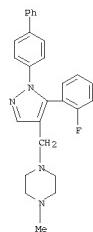
AU2002342675 A1 20030422 2002AU-0342675 20020911

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

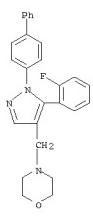


RN 508219-13-4 HCAPLUS  
CN Morpholine, 4-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

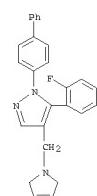
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-15-6 HCAPLUS  
CN 1H-Pyrazole, 1-[(1-(1,1'-biphenyl)-4-yl)-4-((2,5-dihydro-1H-pyrrrol-1-yl)methyl)-5-(2-fluorophenyl)]- (CA INDEX NAME)

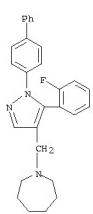


RN 508219-14-5 HCAPLUS  
CN Piperazine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-4-methyl- (CA INDEX NAME)



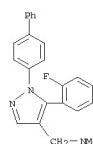
RN 508219-16-7 HCAPLUS  
CN 1H-Azepine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methylhexahydro- (CA INDEX NAME)

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

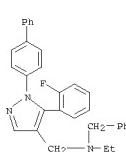


RN 508219-17-8 HCAPLUS  
CN 1H-Pyrazole-4-methanamine, 1-(1,1'-biphenyl)-4-yl-N-ethyl-5-(2-fluorophenyl)-N-(phenylmethyl)- (CA INDEX NAME)

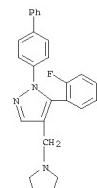
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



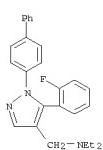
RN 508219-20-3 HCAPLUS  
CN 1H-Pyrazole, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-4-(1-pyrrolidinylmethyl)]- (CA INDEX NAME)



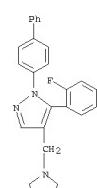
RN 508219-18-9 HCAPLUS  
CN 1H-Pyrazole-4-methanamine, 1-(1,1'-biphenyl)-4-yl-N,N-diethyl-5-(2-fluorophenyl)- (CA INDEX NAME)



RN 508219-21-4 HCAPLUS  
CN Thiazolidine, 3-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

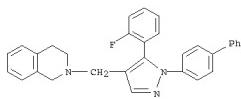


RN 508219-19-0 HCAPLUS  
CN 1H-Pyrazole-4-methanamine, 1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-N,N-dimethyl- (CA INDEX NAME)

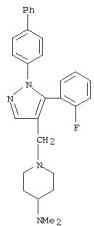


RN 508219-22-5 HCAPLUS  
CN Isoquinoline, 2-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-1,2,3,4-tetrahydro- (CA INDEX NAME)

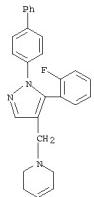
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-23-6 HCAPLUS  
CN 4-Piperidinamine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]-N,N-dimethyl- (CA INDEX NAME)

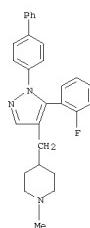


RN 508219-24-7 HCAPLUS  
CN Pyridine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]-1,2,3,6-tetrahydro- (CA INDEX NAME)

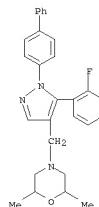


RN 508219-25-8 HCAPLUS  
CN Piperidine, 4-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]-1-methyl- (CA INDEX NAME)

L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

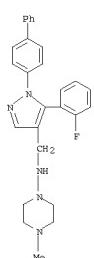


RN 508219-26-9 HCAPLUS  
CN Morpholine, 4-[(1-(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]-2,6-dimethyl- (CA INDEX NAME)

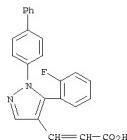


RN 508219-27-0 HCAPLUS  
CN 1-Piperazinamine, N-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]-4-methyl- (CA INDEX NAME)

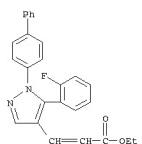
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-28-1 HCAPLUS  
CN 2-Propenoic acid, 3-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

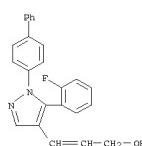


RN 508219-29-2 HCAPLUS  
CN 2-Propenoic acid, 3-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]-, ethyl ester (CA INDEX NAME)

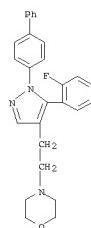


RN 508219-30-5 HCAPLUS  
CN 2-Propeno-1-ol, 3-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

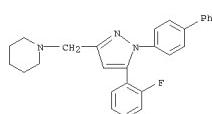
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-31-6 HCAPLUS  
CN Morpholine, 4-[(2-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]ethyl)- (CA INDEX NAME)

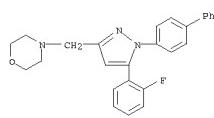


RN 508219-32-7 HCAPLUS  
CN Piperidine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-3-yl)methyl]- (CA INDEX NAME)

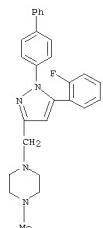


RN 508219-33-8 HCAPLUS  
CN Morpholine, 4-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-3-yl)methyl]- (CA INDEX NAME)

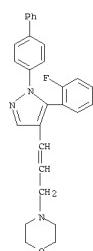
L15 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)



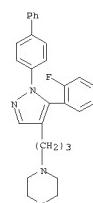
RN 508219-34-9 HCPLUS  
CN Piperazine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-3-yl]methyl- (CA INDEX NAME)



RN 508219-35-0 HCPLUS  
CN Morpholine, 4-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]-2-propenyl- (9CI) (CA INDEX NAME)

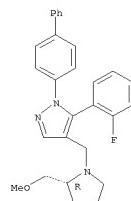


RN 508219-36-1 HCPLUS

L15 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN Morpholine, 4-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]propyl- (CA INDEX NAME)

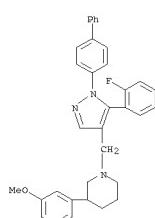
RN 508219-37-2 HCPLUS  
CN 1H-Pyrazole, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-4-((2R)-2-(methoxymethyl)-1-pyrrolidinyl)methyl- (CA INDEX NAME)

Absolute stereochemistry.

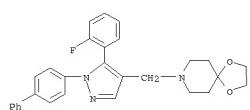


RN 508219-38-3 HCPLUS  
CN Piperidine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-3-(3-methoxyphenyl)- (CA INDEX NAME)

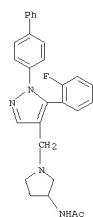
L15 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-39-4 HCPLUS  
CN 1,4-Dioxa-8-azaspiro[4.5]decane, 8-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

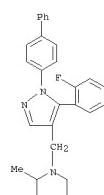


RN 508219-40-7 HCPLUS  
CN Acetamide, N-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-3-pyrrolidinyl- (CA INDEX NAME)

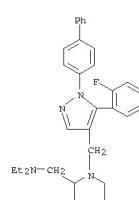


RN 508219-41-8 HCPLUS  
CN Piperidine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-2-methyl- (CA INDEX NAME)

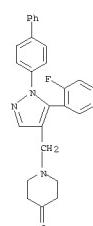
L15 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)



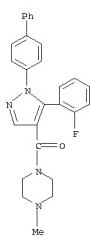
RN 508219-42-9 HCPLUS  
CN 2-Piperidinemethanamine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-N,N-diethyl- (CA INDEX NAME)



RN 508219-43-0 HCPLUS  
CN 4-Piperidinone, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

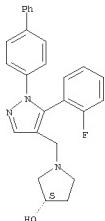


RN 508219-44-1 HCPLUS  
CN Piperazine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]carbonyl-4-methyl- (9CI) (CA INDEX NAME)

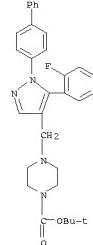


RN 508219-45-2 HCAPLUS  
CN 3-Pyrrolidinol, 1-[1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (3S)- (CA INDEX NAME)

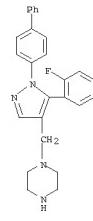
Absolute stereochemistry.



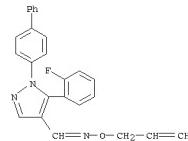
RN 508219-46-3 HCAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



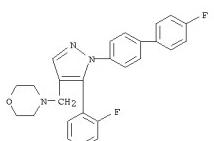
RN 508219-47-4 HCAPLUS  
CN Piperazine, 1-[1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)



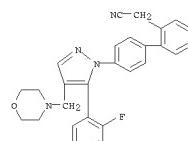
RN 508219-48-5 HCAPLUS  
CN 1H-Pyrazole-4-carboxaldehyde, 1-[1,1'-biphenyl]-4-yl-5-(2-fluorophenyl)-O-2-propenyl oxime (9CI) (CA INDEX NAME)



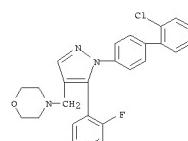
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 508219-49-6 HCAPLUS  
CN Morpholine, 4-[1-(4'-fluoro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)



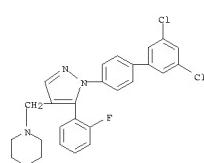
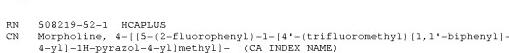
RN 508219-51-0 HCAPLUS  
CN Morpholine, 4-[1-(2-fluorophenyl)-1-(3',4',5'-trimethoxy[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)



RN 508219-54-3 HCAPLUS  
CN Morpholine, 4-[1-(2'-chloro[1,1'-biphenyl]-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

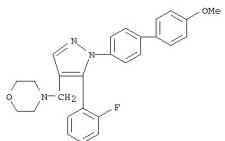


RN 508219-55-4 HCAPLUS  
CN Morpholine, 4-[1-(3',5'-dichloro[1,1'-biphenyl]-4-yl)-9-(2-fluorophenyl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

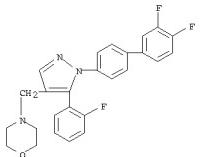


RN 508219-56-5 HCAPLUS  
CN Morpholine, 4-[1-(4'-methoxy[1,1'-biphenyl]-4-yl)-1H-pyrazol-4-yl]methyl- (CA INDEX NAME)

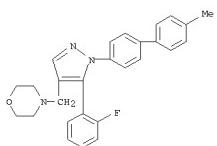
RN 508219-53-2 HCAPLUS  
CN [1,1'-Biphenyl]-2-acetonitrile, 4'-(5-(2-fluorophenyl)-4-(4-morpholinylmethyl)-1H-pyrazol-1-yl)- (CA INDEX NAME)



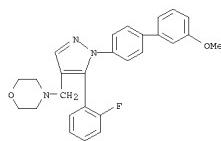
RN 508219-57-6 HCAPLUS  
CN Morpholine, 4-[(1-(3',4'-difluoro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



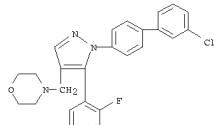
RN 508219-58-7 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluorophenyl)-1-(4-methyl(1,1'-biphenyl)-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



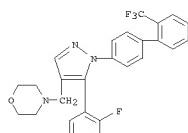
RN 508219-59-8 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluorophenyl)-1-(3-methoxy(1,1'-biphenyl)-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



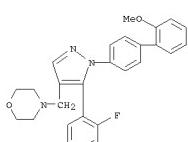
RN 508219-60-1 HCAPLUS  
CN Morpholine, 4-[(1-(3-chloro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



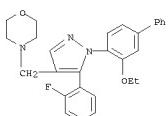
RN 508219-61-2 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluorophenyl)-1-(2-(trifluoromethyl)(1,1'-biphenyl)-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



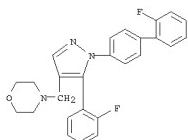
RN 508219-62-3 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluorophenyl)-1-(2-methoxy(1,1'-biphenyl)-4-yl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



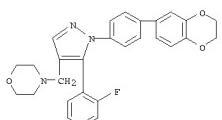
RN 508219-63-4 HCAPLUS  
CN Morpholine, 4-[(1-(3-ethoxy(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



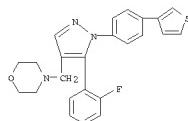
RN 508219-64-5 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluoro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



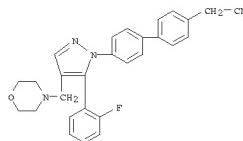
RN 508219-65-6 HCAPLUS  
CN Morpholine, 4-[(1-(4-(2,3-dihydro-1,4-benzodioxin-6-yl)phenyl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



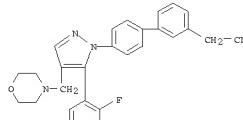
RN 508219-66-7 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluorophenyl)-1-(4-(3-thienyl)phenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



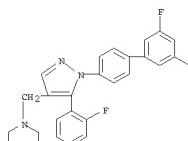
RN 508219-68-9 HCAPLUS  
CN [1,1'-Biphenyl]-4-acetonitrile, 4-[(5-(2-fluorophenyl)-4-(4-morpholinylmethyl)-1H-pyrazol-1-yl)]- (CA INDEX NAME)



RN 508219-69-0 HCAPLUS  
CN [1,1'-Biphenyl]-3-acetonitrile, 4-[(5-(2-fluorophenyl)-4-(4-morpholinylmethyl)-1H-pyrazol-1-yl)]- (CA INDEX NAME)

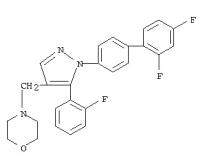


RN 508219-70-3 HCAPLUS  
CN Morpholine, 4-[(1-(3,5-difluoro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

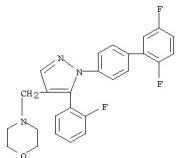


RN 508219-71-4 HCAPLUS  
CN Morpholine, 4-[(1-(2,4-difluoro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)

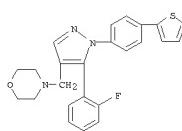
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
1H-pyrazol-4-yl)methyl- (CA INDEX NAME)



RN 508219-72-5 HCAPLUS  
CN Morpholine, 4-[(1-(2',5'-difluoro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



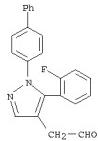
RN 508219-73-6 HCAPLUS  
CN Morpholine, 4-[(S-(2-fluorophenyl)-1-[4-(2-thienyl)phenyl]-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



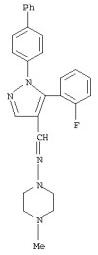
RN 508219-74-7 HCAPLUS  
CN Morpholine, 4-[(1-(4'-chloro(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



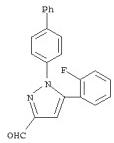
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
(CA INDEX NAME)



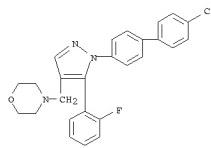
RN 508219-85-0 HCAPLUS  
CN 1-Piperazinamine, N-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl]methylene]-4-methyl- (CA INDEX NAME)



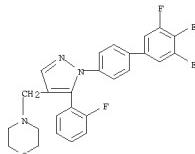
RN 508219-87-2 HCAPLUS  
CN 1H-Pyrazole-3-carboxaldehyde, 1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)- (CA INDEX NAME)



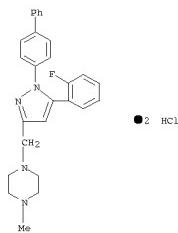
L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 508219-75-8 HCAPLUS  
CN Morpholine, 4-[(1-(2-fluorophenyl)-5-(2-fluorophenyl)-1H-pyrazol-4-yl)methyl]- (CA INDEX NAME)



RN 508219-86-1 HCAPLUS  
CN Piperazine, 1-[(1-(1,1'-biphenyl)-4-yl)-5-(2-fluorophenyl)-1H-pyrazol-3-yl)methyl]-4-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



IT 508219-84-9 508219-85-0 508219-87-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of pyrazoles as glycine transporter protein inhibitors for the treatment of neurodegenerative diseases)  
RN 508219-84-9 HCAPLUS  
CN 1H-Pyrazole-4-acetaldehyde, 1-(1,1'-biphenyl)-4-yl-5-(2-fluorophenyl)-

10 / 551905

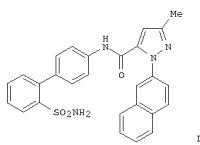
=> d bib abs hitstr 146 tot

L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2002:522631 HCAPLUS  
 DN 137:93747  
 TI Preparation of pyrazolecarboxamides as inhibitors of factor Xa  
 IN Zhai, Bing-yan; Jia, Zhaocheng; Jia, Huang, Wenrong; Song, Yonghong; Kanter, James; Scarborough, Robert M.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 303 pp., Cont.-in-part of U.S. Ser. No. 662,807.  
 COUN: USXXCO  
 DP Patent  
 LA English  
 FAN:CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US50003901116	A1	20000711	2001US-0794214	20010228 <-
US—6523015	B2	20031014		
US—6720317	B1	20040413	2000US-0662807	20000915
US—6686368	B1	20040203	2003US-0387927	20030312
US2004116399	A1	20040617	2003US-0600695	20030620
US20060139339	A1	20060116	2005US-0035767	20050114
US—7255465	B2	20070713		

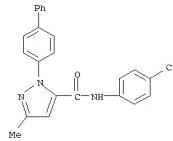
PRAI 1999US5-154332P P 19990917  
 2000US-0662807 A2 20000915  
 2000US-185746P P 20000229  
 2000US-0663420 A1 20000915  
 2001US-0794214 A1 20010228

OS MARPAJ 137:93747  
 GI

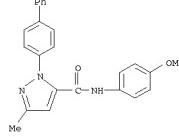


AB The title compds. ADEGJK (A = alkyl, cycloalkyl, (un)substituted Ph, naphthyl, etc.; J = a direct link, divalent alkyl, alkenyl, etc.; D = a direct link, (un)substituted Ph, 5-10 membered (non)aromatic heterocyclic; E = a direct link, (CH<sub>2</sub>)<sub>q</sub>CO, CO(CH<sub>2</sub>)<sub>x</sub>, etc.; q, x = 0-2; G = (un)substituted Ph, 5-6 membered heteroaryl; J' = a direct link, SO<sub>2</sub>, CO, etc.; X = (un)substituted Ph, 5-6 membered heteroaryl, etc.) have activity against mammalian factor Xa and useful in vitro, in vivo for preventing or treating coagulation disorders, were prepared. E.g., a 3-step synthesis of the pyrazolecarboxamide I was given:  
 330803-16-2P 330803-17-3P 330803-18-4P  
 130103-1-3-OP 330803-21-9P  
 330803-18-2P 330803-23-1P 330803-24-2P  
 330803-25-3P 330803-33-3P  
 RU: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);  
 (Preparation of pyrazolecarboxamides as inhibitors of factor Xa)  
 RN: 330803-16-2 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[1,1'-biphenyl]-4-yl-N-(4-chlorophenyl)-3-methyl- (CA INDEX NAME)

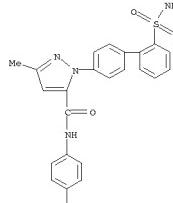
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN: 330803-17-3 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[1,1'-biphenyl]-4-yl-N-(4-methoxyphenyl)-3-methyl- (CA INDEX NAME)

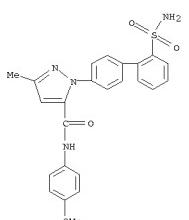


RN: 330803-18-4 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(4-methoxyphenyl)-3-methyl- (CA INDEX NAME)

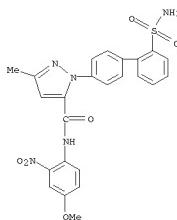


RN: 330803-19-5 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(4-methoxyphenyl)-3-methyl- (CA INDEX NAME)

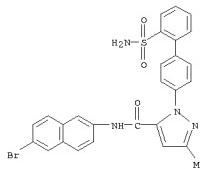
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN: 330803-20-8 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(4-methoxy-2-nitrophenyl)-3-methyl- (CA INDEX NAME)

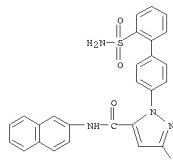


RN: 330803-21-9 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(6-bromo-2-naphthalenyl)-3-methyl- (CA INDEX NAME)

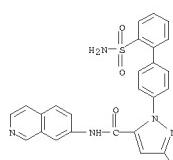


RN: 330803-22-0 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(5-methyl-2-naphthalenyl)-3-methyl- (CA INDEX NAME)

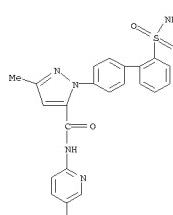
L46 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN: 330803-23-1 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(5-isquinolinyl)-3-methyl- (CA INDEX NAME)

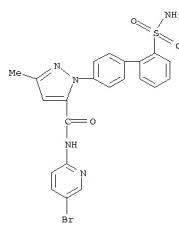


RN: 330803-24-2 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(5-chloro-2-pyridinyl)-3-methyl- (CA INDEX NAME)

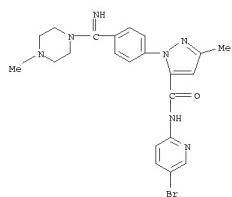


RN: 330803-25-3 HCAPLUS  
 CN: 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(5-bromo-2-pyridinyl)-3-methyl- (CA INDEX NAME)

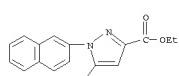
L46 ANSWER 1 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 330803-33-3 HCAPLUS  
CN 1H-Pyrazole-5-Carboxamide, N-(5-bromo-2-pyridinyl)-l-[4-(imino(4-methyl-1-piperazinyl)methyl)phenyl]-3-methyl- [CA INDEX NAME]

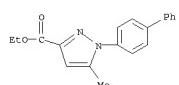


IT 330803-41-3P 330803-91-3P 330803-93-5P  
 330803-94-6P  
 RL RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACR (Reactant or reagent)  
 RN 330803-41-3 HOMOJUS  
 CN 1H-Pyrazole-3-carboxylic acid, 5-methyl-1-(2-naphthalenyl)-, ethyl ester  
 (CA INDEX NAME)

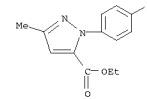


RN 330803-91-3 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-[1,1'-biphenyl]-4-yl-3-methyl-, ethyl ester, (E)-  
anti-  
CC(=O)c1ccccc1C2=Cc3ccccc3C(C)=C2

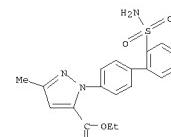
146 ANSWER 1 OF 18 NCAPLUS COPYRIGHT 2002 ACS on STN (Continued)



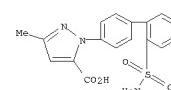
146 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



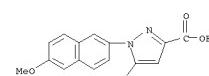
RN 330803-93-5 HCPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-(2'-(aminosulfonyl){1,1'-biphenyl}-4-yl)-3-methyl-, ethyl ester (CA INDEX NAME)



RN 330803-94-6 HCAPLUS  
CN 1*H*-Pyrazole-5-carboxylic acid, 1-(2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl)-3-methyl- (CA INDEX NAME)



IT 330803-76-4P 330803-92-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 -Preparation of pyrrolecarboxamides as inhibitors of factor Xa)  
 RN 330803-92-4 (CAINDEX NAME)  
 CN 11-hydropyrazole-3-carboxylic acid, 1-(6-methoxy-2-naphthalenyl)-5-methyl-  
 ethyl ester (CA INDEX NAME)

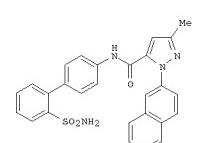


RN 330803-92-4 HCPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(1,1'-biphenyl)-4-yl-5-methyl-, ethyl ester (CA INDEX NAME)

146 ANSWER 1 OF 18 NCAPLUS COPYRIGHT 2002 ACS on STN (Continued)

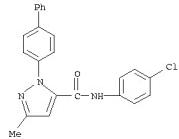
146 ANSWER 2 OF 18 NCAPLUS COPYRIGHT 2002 ACS on 5/10/2014

AN 2001:208438 RCAPUS  
134:253234  
Title: Pyrazole-1-phenyl-3-methyl-1H-pyrazole-5-carboxamides as  
inhibitors of factor Xa  
Inventor: Schreiber, Robert M.  
Zhu, Bing-Yan Jia, Zhaohong Jon; Huang, Wenrong; Song, Yonghong; Kanter,  
James; Schreiber, Robert M.  
Co.: PCT Int. Appl., 314 PP.

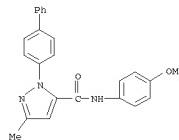


**A8** The title compound, A8GKQW ( $R = \text{alkyl, cycloalkyl, } (\text{un})\text{substituted Ph, } Q = \text{a direct link, alkylene, CO, etc., } S = \text{a direct link, naphthylene, etc., } E = \text{a direct link, } (\text{CH}_2)_n\text{SO}_2, \text{ SO}_2\text{C, etc.; } q = 0-2; G = \text{(un)substituted Ph, } (\text{un})\text{substituted S-6 membered (hetero)aromatic heterocyclic } \alpha\text{-ring containing 1-3 heteroatoms selected from N, O and S; } J = \text{a direct link, } \text{SO}_2, \text{ CO, etc.; } X = \text{(-O-), (-S-), (-NH-, -NHCO-, -CONH-, -NHCO-), (-NHCO-), (-CONH-) substituent mammalian Factor Xa, and therefore useful in vitro or in vivo for}$

L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 preventing or treating coagulation disorders, were prepd. E.g., a 3-step synthesis of the pyrazolecarboxamide I was described.  
 IT 330803-16-0 330803-17-1 330803-18-4P  
 330803-18-5P 330803-19-0P 330803-21-9P  
 330803-22-0P 330803-23-1P 330803-24-2P  
 330803-25-3P 330803-33-3P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BTO (Biological study); PREP (Preparation); USES (Uses); (Preparation of 1-naphthyl-3-methyl-1H-pyrazole-5-carboxamides as inhibitors of factor Xa)  
 RN 330803-16-2 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[1,1'-biphenyl]-4-yl-N-(4-chlorophenyl)-3-methyl- (CA INDEX NAME)

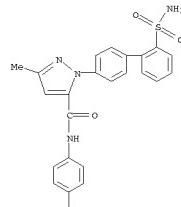


RN 330803-17-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[1,1'-biphenyl]-4-yl-N-(4-methoxyphenyl)-3-methyl- (CA INDEX NAME)

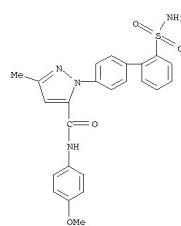


RN 330803-18-4 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(4-bromophenyl)-3-methyl- (CA INDEX NAME)

L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



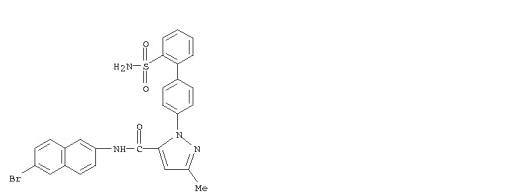
RN 330803-19-5 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(4-methoxyphenyl)-3-methyl- (CA INDEX NAME)



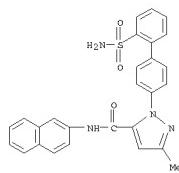
RN 330803-20-8 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(4-methoxy-2-nitrophenyl)-3-methyl- (CA INDEX NAME)

L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 330803-21-9 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(6-bromo-2-naphthalenyl)-3-methyl- (CA INDEX NAME)

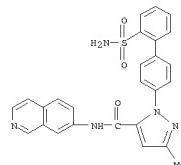


RN 330803-22-0 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-3-methyl-N-2-naphthalenyl- (CA INDEX NAME)

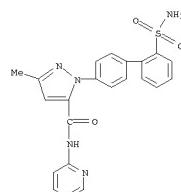


RN 330803-23-1 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-7-isoquinolinyl-3-methyl- (CA INDEX NAME)

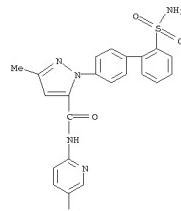
L46 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 330803-24-2 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(5-chloro-2-pyridinyl)-3-methyl- (CA INDEX NAME)

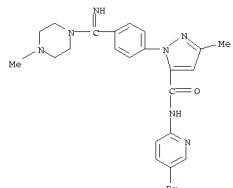


RN 330803-25-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, 1-[2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl]-N-(5-bromo-2-pyridinyl)-3-methyl- (CA INDEX NAME)

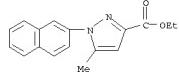


RN 330803-33-3 HCAPLUS  
 CN 1H-Pyrazole-5-carboxamide, N-(5-bromo-2-pyridinyl)-1-(4-imino(4-methyl-1-piperazinyl)methyl)phenyl-3-methyl- (CA INDEX NAME)

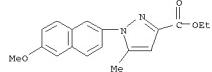
L46 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



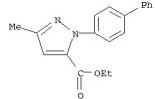
IT 330803-41-3P 330803-76-4P 330803-91-3P  
330803-92-4P 330803-93-5P 330803-94-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
Preparation of 1-naphthyl-3-methyl-1H-pyrazole-5-carboxamides as inhibitors of factor Xa  
RN 330803-41-3 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 5-methyl-1-(2-naphthalenyl)-, ethyl ester (CA INDEX NAME)



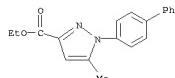
RN 330803-76-4 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(6-methoxy-2-naphthalenyl)-5-methyl-, ethyl ester (CA INDEX NAME)



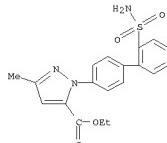
RN 330803-91-3 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-(1,1'-biphenyl)-4-yl-3-methyl-, ethyl ester (CA INDEX NAME)



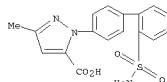
L46 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 330803-92-4 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(1,1'-biphenyl)-4-yl-5-methyl-, ethyl ester (CA INDEX NAME)



RN 330803-93-5 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-(2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl)-3-methyl-, ethyl ester (CA INDEX NAME)



RN 330803-94-6 HCAPLUS  
CN 1H-Pyrazole-5-carboxylic acid, 1-(2'-(aminosulfonyl)(1,1'-biphenyl)-4-yl)-3-methyl- (CA INDEX NAME)



L46 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000-260231 HCAPLUS  
DN 132-293770

TI Preparation of 6-substituted pyrazolo[3,4-d]pyrimidin-4-ones as cyclin dependent kinase inhibitors  
Marwick, Jay A.; Seitz, Steven P.; Sherk, Susan R.

PA Du Pont Pharmaceuticals Company, USA

SO PCT Int. Appl., 155 pp.

CODEN: PIXX2

DT Patent

LA 2000-06-13

RN 264138-33-2P 264139-02-4P

CN 1A

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2000025126	A2	20000420	1999W0-US23512	19991013 <-
WO2000025126	A3	20000803		
W: AL AU BR CA CN CZ EE HU IL IN JP KR LT LV MK MX NO NZ PL RO SG SI SK TR UA VN ZA AM AZ BY EG KG KE MD RU TJ TM RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE: GE				
US-6551477	B1	20030311	1999US-0416584	19991012
CA-2365809	A1	20000420	1999CA-2345809	19991013 <-
EP-0951875	A2	20010808	1999EP-0951875	19991013 <-
EP-0951875	B1	20041222		
R: AT BE CH DE DK ES FI FR GB GR IT LI LU NL SE MC PT, IE, SI, LT, LV, FI, RO				

JP2000253723  
AT---265411  
PT---1121363  
ES-0951875  
US200023328  
US-6551477  
CA---2431038  
EP-0951875

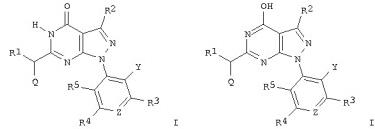
WO2000067654  
A2 20020906 2002W0-US06002  
WO2000067654  
A3 20021212

W: AL AU AS BR BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SI SE SG SI SK SL TJ TM TN TR TT TZ RW: GH GM KE LS MW MG SD SJ SZ TZ UG ZM ZM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AU2002255614  
EP-0951875  
R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE MC PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, IR

JP2004520407  
19981013  
1999US-039570  
1999US-039570  
1999W0-US23512  
W: 19991013  
2001US-0794825  
A 20010227  
2002W0-US06002  
W: 20020227

PRAI 19981013  
1999US-039570  
1999W0-US23512  
W: 19991013  
2001US-0794825  
A 20010227  
2002W0-US06002  
W: 20020227  
OS MARPAT 132:293770  
GI

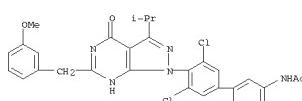


AB The title compds. (I), alternatively represented by tautomer II; Q = H, OH, Me, Et; Y = F, Cl, Br, I; Z = N, CR6; R1 = (un)substituted Ph, naphthyl,

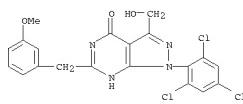
L46 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
tropone, etc.; R2 = alkyl, alkenyl, alkynyl, etc.; R3 = H, F, Cl, etc.; R4 = H, F, Cl, etc.; R5 = H, alkyl, F, etc.; R6 = H, F, Cl, etc.) which are potent inhibitors of the class of enzymes known as cyclin dependent kinases (CDKs), which relate to the catalytic units cyclin dependent kinase 4 and the regulatory subunits known as cyclins A-K, K, N, and T, and are useful in treating cancer or other proliferative diseases, were prepd. Thus, reacting 5-amino-3-methylthio-1-(2,4,6-trichlorophenyl)pyrazole-4-carboxamide with 3-methoxyphenylacetyl chloride in the presence of NaH in EtOH afforded 92% I (Q = H; Y = Cl; R1 = 3-MeOC6H5; R2 = H; R3 = F; R4 = H; R5 = Cl; R6 = CCl).

IT: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USE: (Use); PREP: (preparation of 6-substituted pyrazolo[3,4-d]pyrimidin-4-ones as cyclin dependent kinase inhibitors)

RN 264138-33-2P 264139-02-4P  
CN 1A  
Acetamide, N-(3',5'-dichloro-4'-(4,5-dihydro-3-(3-methoxyphenyl)methyl)-3-(1-methylethyl)-4-oxo-3H-pyrazolo[3,4-d]pyrimidin-1-yl)-1,1'-biphenyl)-3-YI- (CA INDEX NAME)



RN 264139-02-8 HCAPLUS  
CN 1H-Pyrazolo[3,4-d]pyrimidin-4-one, 1,5-dihydro-3-(hydroxymethyl)-6-[(3-methoxyphenyl)methyl]-1-(2,4,6-trichlorophenyl)- (CA INDEX NAME)



L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 12980666 HCAPLUS

DN 129144878

TI Pyrazole derivatives for cannabinoid receptor modulators, preparation, and therapeutic use  
 IN Xiang, Jia Ning; Elliott, John Duncan; Atkinson, Steven Todd; Christensen, Siegfried Benjamin, IV  
 PA Smithkline Beecham Corp., USA  
 SG PCT Int. Appl.; 32 pp.  
 COOPER, PIXXD2

DT Patent

LA English

FAN,CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO-9821237	A1	19980723	1998WO-US01175	19980120 <--
W: CA, JP, US				
RN: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA-2278307	A1	19980723	1998CA-2278307	19980120 <--
EP-9791888	A1	20000109	1998EP-0904629	19980120 <--
EP-9791889	EP10040317			
R: BE, CH, DE, ES, FR, GB, IT, LU, NL				
JP200150799	T	20010703	1998JP-0534688	19980120 <--
ES-2233892	I3	20040901	1998ES-0904629	19980120 <--
US-2101559	A	20000808	1999US-0355151	19991015 <--
PRAI 1997US12563P	P	19980121		
1998WO-US01175	W	19980120		

MARPAT 129144878

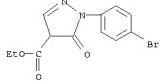
AB Pyrazole derivs. are provided which are cannabinoid receptor modulators. The compds. of the invention may be used to treat a variety of diseases, e.g., pain, alcohol-mediated inflammatory diseases and renal ischemia. Preparation of Et 5-(2-morpholin-4-ylmethoxy)-1-(4-(2-formylphenyl)phenyl)pyrazole-4-carboxylic acid is described.

IT 66530-36-7P 210819-95-7P

RU: R001 (Patent); S001 (Synthetic preparation); PREP (Preparation); R001 (Reactant or reagent); (preparation and reaction); pyrazole derivs. for cannabinoid receptor modulators, preparation, and therapeutic use)

RN 66530-36-7 HCAPLUS

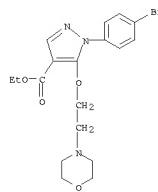
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-bromophenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



RN 210819-95-7 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(4-bromophenyl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

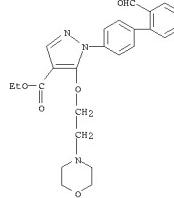


IT 210819-24-2P

PL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (pyrazole derivs. for cannabinoid receptor modulators, preparation, and therapeutic use)

RN 210819-24-2 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-Formyl(1',1'-biphenyl)-4-yl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)



IT 210819-25-3 210819-26-4 210819-27-5

210819-28-0 210819-29-7 210819-30-0

210819-31-1 210819-32-2 210819-33-3

210819-25-5 210819-36-4 210819-37-7

210819-40-2 210819-42-6 210819-48-0

210819-52-2 210819-53-7 210819-54-8

210819-55-9 210819-56-0 210819-57-1

210819-58-2 210819-59-3 210819-60-4

210819-61-7 210819-62-8 210819-63-9

210819-64-0 210819-65-1 210819-66-2

210819-67-3 210819-71-9 210819-72-0

210819-73-1 210819-74-2 210819-76-4

210819-75-5 210819-78-6 210819-81-1

210819-83-3 210819-88-9 210819-85-5

210819-86-6 210819-91-3 210819-92-4

210819-93-5 210819-94-6

PL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

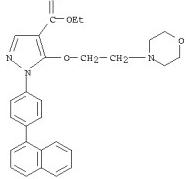
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

(Uses)

(Pyrazole derivs. for cannabinoid receptor modulators, prepns., and therapeutic use)

RN 210819-25-3 HCAPLUS

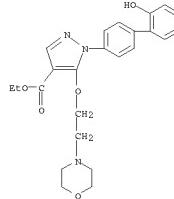
CN 1H-Pyrazole-4-carboxylic acid, 5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)



RN 210819-26-4 HCAPLUS

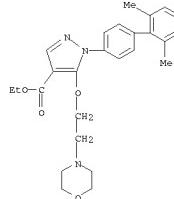
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(methoxymethoxy)(1,1'-biphenyl)-4-yl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



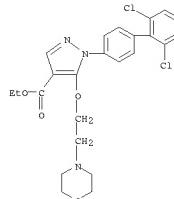
RN 210819-28-6 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(2',6'-dimethyl(1,1'-biphenyl)-4-yl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)



RN 210819-29-7 HCAPLUS

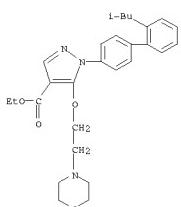
CN 1H-Pyrazole-4-carboxylic acid, 1-(2',6'-dichloro(1,1'-biphenyl)-4-yl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)



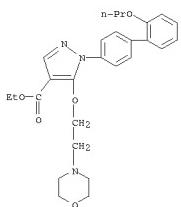
RN 210819-30-0 HCAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(2-methylpropyl)(1,1'-biphenyl)-4-yl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

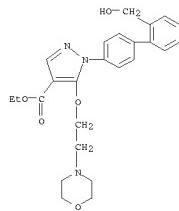


RN 210819-31-1 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 5-(2-(4-morpholinyl)ethoxy)-1-(2'-propoxy[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)

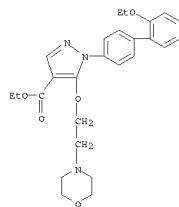


RN 210819-33-3 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(hydroxymethyl)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

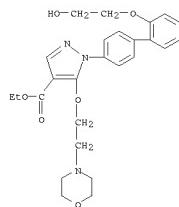
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-34-4 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-ethoxy[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

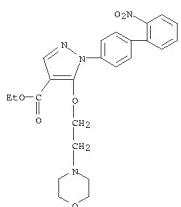


RN 210819-35-5 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(hydroxyethoxy)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

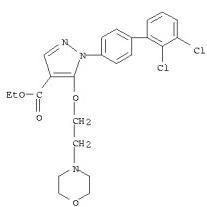


L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

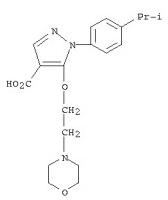
RN 210819-36-6 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 5-(2-(4-morpholinyl)ethoxy)-1-(2'-nitro[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)



RN 210819-37-7 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2',3'-dichloro[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

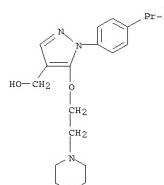


RN 210819-40-2 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

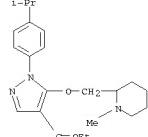


L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

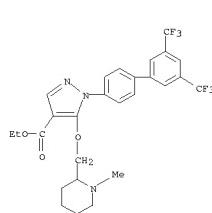
RN 210819-42-4 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)



RN 210819-48-0 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-((1-methyl-2-piperidinyl)methoxy)-, ethyl ester (CA INDEX NAME)

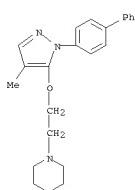


RN 210819-52-6 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3',5'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl)-5-((1-methyl-2-piperidinyl)methoxy)-, ethyl ester (CA INDEX NAME)

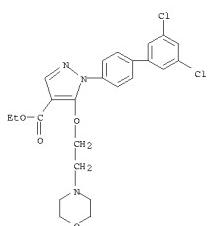


RN 210819-53-7 HCAPLUS  
CN Morpholine, 4-[2-[(1-(1,1'-biphenyl)-4-yl)-4-methyl-1H-pyrazol-5-

L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
y1)oxy)ethyl)- (CA INDEX NAME)

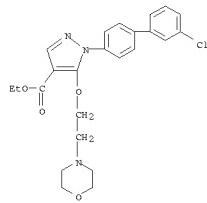


RN 210819-54-8 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3',5'-dichloro(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

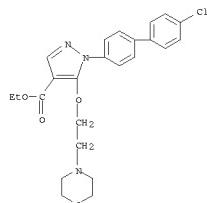


RN 210819-55-9 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3'-chloro(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

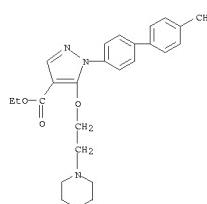
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-56-0 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-chloro(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

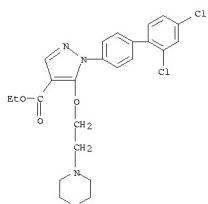


RN 210819-57-1 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-formyl(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

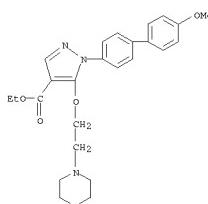


L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 210819-58-2 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2',4'-dichloro(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

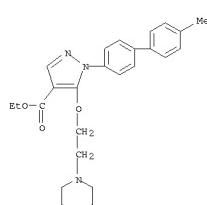


RN 210819-59-3 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-methoxy(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

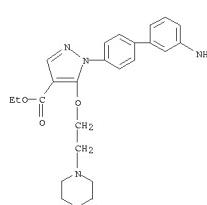


RN 210819-60-6 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-methyl(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

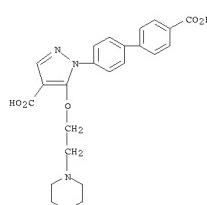
L46 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-61-7 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(3'-amino(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

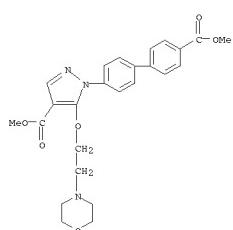


RN 210819-62-8 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-carboxy(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

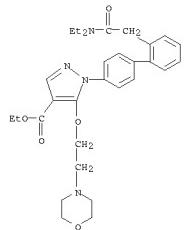


RN 210819-63-9 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4'-(methoxycarbonyl)(1,1'-biphenyl)-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, methyl ester (CA INDEX NAME)

146 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

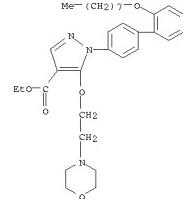


RN 210819-64-0 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(2-(diethylamino)-2-oxoethyl)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

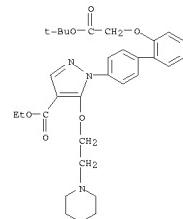


RN 210819-65-1 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-(2'-(octyloxy)[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)

146 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

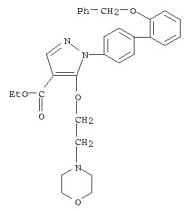


RN 210819-66-2 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(2-(1,1-dimethylethoxy)-2-oxoethyl)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

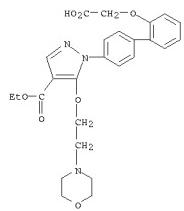


RN 210819-67-3 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 5-[2-(4-morpholinyl)ethoxy]-1-(2'-(phenylmethoxy)[1,1'-biphenyl]-4-yl)-, ethyl ester (CA INDEX NAME)

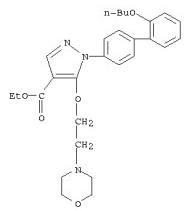
146 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-71-9 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(carboxymethoxy)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, 4-ethyl ester (CA INDEX NAME)

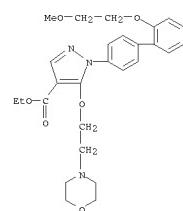


RN 210819-72-0 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-butoxy[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

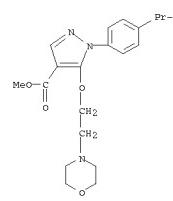


RN 210819-73-1 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(2'-(2-methoxyethoxy)[1,1'-biphenyl]-4-yl)-5-[2-(4-morpholinyl)ethoxy]-, ethyl ester (CA INDEX NAME)

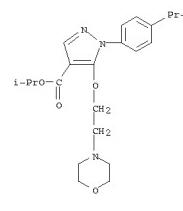
146 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-74-2 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-[2-(4-morpholinyl)ethoxy]-, methyl ester (CA INDEX NAME)

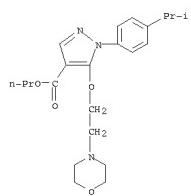


RN 210819-76-4 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-[2-(4-morpholinyl)ethoxy]-, 1-methylethyl ester (CA INDEX NAME)

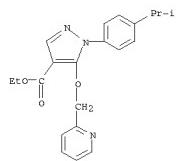


RN 210819-77-5 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-[2-(4-morpholinyl)ethoxy]-, propyl ester (CA INDEX NAME)

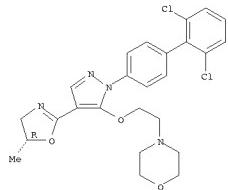
L46 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



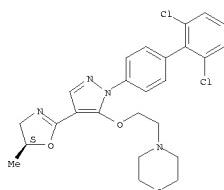
RN 210819-78-6 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-(2-pyridinylmethoxy)-, ethyl ester (CA INDEX NAME)



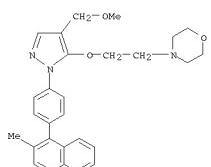
RN 210819-81-1 HCAPLUS  
CN Morpholine, 4-[2-[(1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-((5R)-4,5-dihydro-5-methyl-2-oxazolyl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)  
Absolute stereochemistry. Rotation (-).



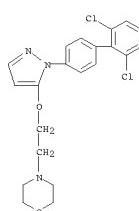
RN 210819-83-3 HCAPLUS  
CN Morpholine, 4-[2-[(1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-((5S)-4,5-dihydro-5-methyl-2-oxazolyl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

L46 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
Absolute stereochemistry. Rotation (+).

RN 210819-84-4 HCAPLUS  
CN Morpholine, 4-[2-[(4-(methoxymethyl)-1-(4-(2-methyl-1-naphthalenyl)phenyl)-1H-pyrazol-5-yl)oxy]ethyl]- (CA INDEX NAME)

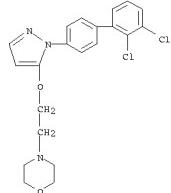


RN 210819-85-5 HCAPLUS  
CN Morpholine, 4-[2-[(1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-1H-pyrazol-5-yl)oxy]ethyl]- (CA INDEX NAME)

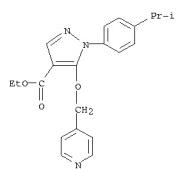


RN 210819-86-6 HCAPLUS  
CN Morpholine, 4-[2-[(1-(2',3'-dichloro[1,1'-biphenyl]-4-yl)-1H-pyrazol-5-yl)oxy]ethyl]- (CA INDEX NAME)

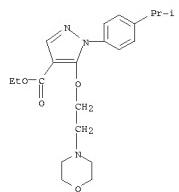
L46 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 210819-91-3 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-(4-pyridinylmethoxy)-, ethyl ester (CA INDEX NAME)

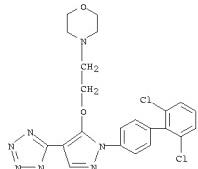


RN 210819-92-4 HCAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-(1-methylethyl)phenyl)-5-(2-(4-morpholinyl)ethoxy)-, ethyl ester (CA INDEX NAME)

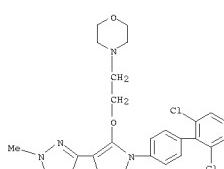


RN 210819-93-5 HCAPLUS  
CN Morpholine, 4-[2-[(1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-(1-methyl-1H-tetrazol-5-yl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

L46 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

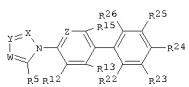


RN 210819-94-6 HCAPLUS  
CN Morpholine, 4-[2-[(1-(2',6'-dichloro[1,1'-biphenyl]-4-yl)-4-(2-methyl-2H-tetrazol-5-yl)-1H-pyrazol-5-yl]oxy]ethyl]- (CA INDEX NAME)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1998:304135 HCAPLUS  
 DN 128:321643  
 TI Preparation of pesticidal 1-polyarylpypyrazoles  
 IN Huang, Nancy; Parker, Huber, Scott Kevin; Huang, Jamin; Timmons, Philip  
 PA Rhone-Poulenc Agrochimie, Fr.  
 SO Eur. Pat. Appl., 38 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FN, CNT

PATENT NO. KIND DATE APPLICATION NO. DATE  
 ----- ---- ----- -----  
 PI EP----839810 A1 19980505 1997EP-0119154 19971103 <-  
 EP----839810 B1 20020925 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PI,  
 IE, SI, FI  
 AT----224878 T 20021015 1997AT-0119154 19971103 <-  
 ES----2179254 T 20031116 1997ES-0119154 19971103 <-  
 JP----1015340 A 19980505 1997JP-0119154 19971103 <-  
 US----6242684 A 19980713 1997US-0964221 19971104 <-  
 US----8107322 A 20000822 1998US-0216878 19981221 <-  
 US----6242475 B1 20010605 2000US-0606185 20000629 <-  
 US2002021959 A1 20021013 2001US-0832861 20010412 <-  
 US----6432002 B2 20020913 2001US-0832861 20010412 <-  
 US----77926 B2 20021210 2001US-0902990 20010713 <-  
 US2002193411 A1 20021219 2002US-0152806 20020523 <-  
 US----6608093 B2 20030819  
 PRATI 1996US-030128P P 19961104  
 US----6608093 A1 19971104  
 1996US-030128P A3 20000629  
 2000US-0606185 A3 20000629  
 2001US-0832861 A3 20010412  
 OS MARPAT 128:321643  
 GI



AB The title compds. (I; X = N, CR2; Y = N, CR3; W = N, CR4; R2, R3 = H, halo, OH, etc.; R4 = halo, alkyl, etc.; R5 = H, halo, CR5, etc.; Z = N, CR16; R12, R13, R15, R16 = H, halo, alkyl, etc.; R22-R26 = halo, alkyl, halalkyl, etc.), useful to control pests, were prepared. Thus, reaction of 5-amino-3-cyano-1-(2,6-dichloro-4-bromophenyl)-4-trifluoromethylpyrazole with 4-trifluoromethylphenylboronic acid in the presence of Pd(dba)3, K2CO3 in diglyme afforded I (X = N; Y = C(CN); W = N, CR3; R5 = NH2; Z = C1; R12, R13, R22, R23, R25, R26 = H; R24 = CF3). The prepared compds. I showed rather good activity on C. elegans.

IT 207136-94-7 P  
 RU AGC (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPP (Synthetic preparation); ATOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of pesticidal 1-polyarylpypyrazoles)  
 RN 207136-94-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)thio)- (CA INDEX NAME)

L46 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 207133-55-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

RN 207133-56-0 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-methyl(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

RN 207133-57-1 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3'-amino-3,5-dichloro(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

RN 207133-58-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-nitro(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

RN 207133-59-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-nitro(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

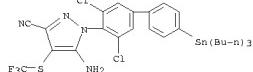
RN 207133-60-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-formyl(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

RN 207133-61-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methoxy(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

RN 207133-62-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methylthio(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

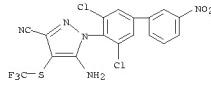
RN 207133-63-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

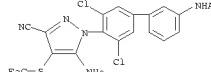


IT 207133-54-8P 207133-55-9P 207133-56-0P  
 207133-57-1P 207133-58-2P 207133-59-3P  
 207133-60-6P 207133-61-7P 207133-62-8P  
 207133-63-9P 207133-64-0P 207133-65-1P  
 207133-66-2P 207133-67-3P 207133-68-4P  
 207133-69-5P 207133-70-6P 207133-71-9P  
 207133-72-0P 207133-73-1P 207133-74-2P  
 207133-75-3P 207133-76-4P 207133-77-5P  
 207133-78-6P 207133-79-7P 207133-80-0P  
 207133-81-1P 207133-82-2P 207133-83-3P  
 207133-84-4P 207133-85-5P 207133-86-6P  
 207133-87-7P 207133-88-8P 207133-89-9P  
 207133-90-2P 207133-91-3P 207133-92-4P  
 207133-93-5P 207133-94-6P 207133-95-7P  
 207133-96-8P 207133-97-9P 207133-98-0P  
 207134-17-1P 207134-18-2P 207134-19-3P  
 207134-20-4P 207134-21-5P 207134-22-6P  
 207134-23-4P 207134-24-5P 207134-25-6P  
 207134-26-7P 207134-27-8P 207134-28-9P  
 207134-29-0P 207134-30-1P 207134-31-2P  
 207134-32-3P 207134-33-4P 207134-34-5P  
 207134-35-6P 207134-36-7P 207134-37-8P  
 207134-38-9P 207134-39-10P 207134-40-11P  
 207134-41-12P 207134-42-13P 207134-43-14P  
 207134-44-15P 207134-45-16P 207134-46-17P  
 207134-47-18P 207134-48-19P 207134-49-20P  
 207134-50-21P 207134-51-22P 207134-52-23P  
 207134-53-24P 207134-54-25P 207134-55-26P  
 207134-56-27P 207134-57-28P 207134-58-29P  
 207134-59-30P 207134-60-31P 207134-61-32P  
 207134-62-33P 207134-63-34P 207134-64-35P  
 207134-65-36P 207134-66-37P 207134-67-38P  
 207134-68-39P 207134-70-40P 207134-72-41P  
 207134-73-42P 207134-74-43P 207134-75-45P  
 207134-76-47P 207134-77-48P 207134-78-49P  
 207134-79-50P 207134-80-51P 207134-81-52P  
 207134-82-53P 207134-83-54P 207134-84-55P  
 207134-85-56P 207134-86-57P 207134-87-58P  
 207134-88-59P 207134-89-60P 207134-90-61P  
 207134-91-62P 207134-92-63P 207134-93-64P  
 207134-94-65P 207134-95-66P 207134-96-67P  
 207134-97-68P 207134-98-69P 207134-99-70P  
 207135-00-20P 207135-01-21P 207135-02-22P  
 207135-03-23P 207135-04-24P 207135-05-25P  
 207135-06-26P 207135-07-27P 207135-08-28P  
 207135-09-29P 207135-10-30P 207135-11-31P  
 207135-12-32P 207135-13-33P 207135-14-34P  
 207135-15-35P 207135-16-36P 207135-17-39P  
 207135-18-40P 207135-19-41P 207135-20-44P  
 207135-21-50P 207135-22-60P 207136-61-6P  
 RU AGC (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPP (Synthetic preparation); ATOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of pesticidal 1-polyarylpypyrazoles)

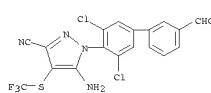
RN 207133-54-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethylthio)- (CA INDEX NAME)



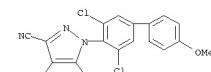
RN 207133-59-3 HCAPLUS  
 CN Acetanilide, N-[4'-(5-amino-3-cyano-4-(trifluoromethylthio)-1H-pyrazol-1-yl)-3',5-dichloro-1,1'-biphenyl]-3-yl- (CA INDEX NAME)



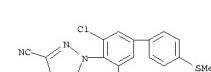
RN 207133-60-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-formyl(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)



RN 207133-61-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methoxy(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

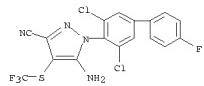


RN 207133-62-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methylthio(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

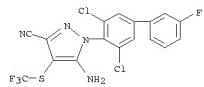


RN 207133-63-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro(1,1'-biphenyl)-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

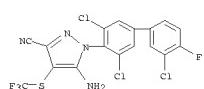
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



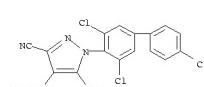
RN 207133-64-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



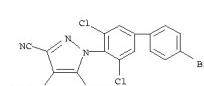
RN 207133-65-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',5-trichloro-4'-fluoro[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



RN 207133-66-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,4',5-trichloro[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



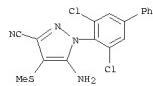
RN 207133-67-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-bromo-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



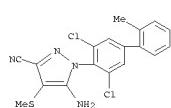
RN 207133-68-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',5,5'-tetrachloro[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



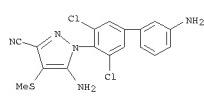
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



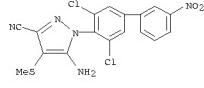
RN 207133-73-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



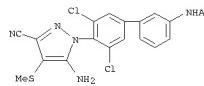
RN 207133-74-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3'-amino-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



RN 207133-75-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-nitro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



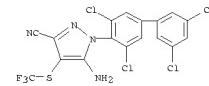
RN 207133-76-4 HCAPLUS  
CN Acetanide, N-[4'-(5-amino-3-cyano-4-(methylthio)-1H-pyrazol-1-yl)-3',5'-dichloro[1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



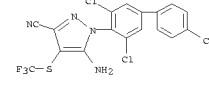
RN 207133-77-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-formyl[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



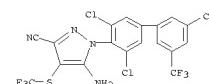
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



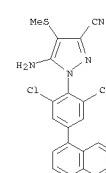
RN 207133-69-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



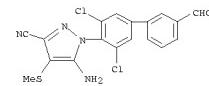
RN 207133-70-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3',5'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(trifluoromethyl)thio)- (CA INDEX NAME)



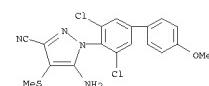
RN 207133-71-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,6-dichloro-4-(naphthalenyl)phenyl)-4-(methylthio)- (CA INDEX NAME)



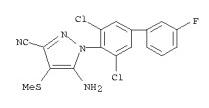
RN 207133-72-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



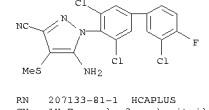
RN 207133-78-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-methoxy[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



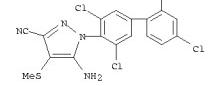
RN 207133-79-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



RN 207133-80-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylthio)-1-(3,3',5-trichloro-4'-fluoro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



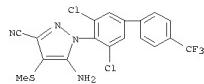
RN 207133-81-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylthio)-1-(2',3,4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



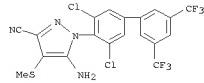
RN 207133-82-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylthio)- (CA INDEX NAME)



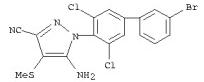
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



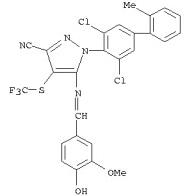
RN 207133-83-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3',5'-bis(trifluoromethyl)biphenyl)-4-(methylthio)- (CA INDEX NAME)



RN 207133-84-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3'-bromo-3,5-dichloro(1,1'-biphenyl)-4-yl)-4-(methylthio)- (CA INDEX NAME)

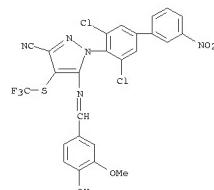


RN 207133-85-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-2'-methyl(1,1'-biphenyl)-4-yl)-5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-4-((trifluoromethyl)thio)- (CA INDEX NAME)

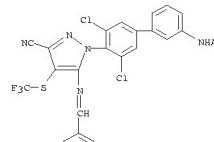


RN 207133-86-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-3'-nitro[1,1'-biphenyl]-4-yl)-5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-4-((trifluoromethyl)thio)- (CA INDEX NAME)

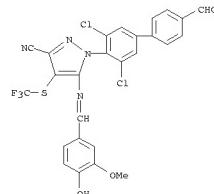
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 207133-87-7 HCAPLUS  
CN Acetanide, N-[3',5'-dichloro-4'-(3-cyano-5-((4-hydroxy-3-methoxyphenyl)methylene)amino)-4-((trifluoromethyl)thio)]-1H-pyrazol-1-yl[1,1'-biphenyl]-3-yl- (CA INDEX NAME)

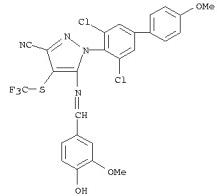


RN 207133-88-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-4'-formyl[1,1'-biphenyl]-4-yl)-5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-4-((trifluoromethyl)thio)- (CA INDEX NAME)

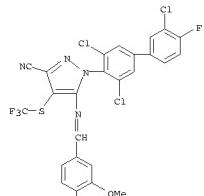


L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 207133-89-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-4'-methoxy[1,1'-biphenyl]-4-yl)-5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-4-((trifluoromethyl)thio)- (CA INDEX NAME)

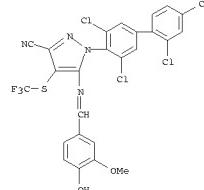


RN 207133-90-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-1-(3,5-trichloro-4'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

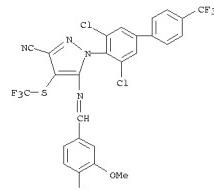


RN 207133-91-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-1-(2',3,4',5-tetrachloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)

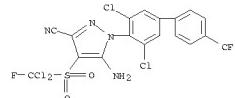
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 207133-92-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-(3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-5-[(4-hydroxy-3-methoxyphenyl)methylene]amino-4-((trifluoromethyl)thio)- (CA INDEX NAME)

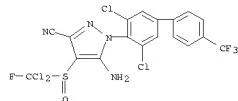


RN 207133-93-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-((dichlorofluoromethyl)sulfonyl)-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

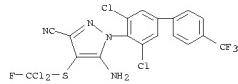


RN 207133-94-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-((dichlorofluoromethyl)sulfinyl)-1-[3,5-dichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

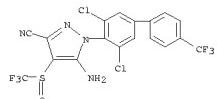
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



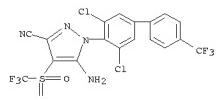
RN 207133-95-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-((dichlorofluoromethyl)thio)-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl - (CA INDEX NAME)



RN 207133-96-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-((trifluoromethyl)sulfinyl) - (CA INDEX NAME)

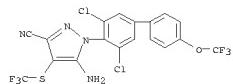


RN 207133-97-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-((trifluoromethyl)sulfonyl) - (CA INDEX NAME)

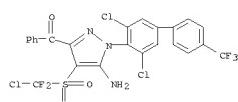


RN 207133-98-0 HCAPLUS  
CN Methanone, (5-amino-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl)-4-((trifluoromethyl)thio)-1H-pyrazol-3-yl]phenyl - (CA INDEX NAME)

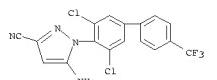
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



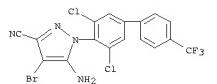
RN 207134-21-2 HCAPLUS  
CN Methanone, (5-amino-4-((chlorodifluoromethyl)sulfonyl)-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl)-1H-pyrazol-3-yl]phenyl - (CA INDEX NAME)



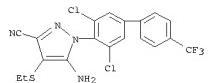
RN 207134-22-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl - (CA INDEX NAME)



RN 207134-23-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-bromo-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl - (CA INDEX NAME)

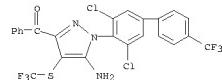


RN 207134-24-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl)-4-(ethylthio) - (CA INDEX NAME)

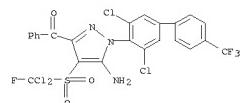


RN 207134-25-6 HCAPLUS  
CN Thiocyanic acid, 5-amino-3-cyano-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl ester - (CA INDEX NAME)

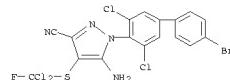
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



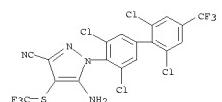
RN 207134-17-6 HCAPLUS  
CN Methanone, (5-amino-4-((dichlorofluoromethyl)sulfonyl)-1-(3,5-dichloro-4-(trifluoromethyl)biphenyl)-4-yl)-1H-pyrazol-3-yl]phenyl - (CA INDEX NAME)



RN 207134-18-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-bromo-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((dichlorofluoromethyl)thio) - (CA INDEX NAME)

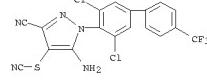


RN 207134-19-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2',3,5,6'-tetrachloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio) - (CA INDEX NAME)

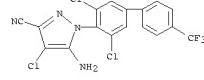


RN 207134-20-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethoxy)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio) - (CA INDEX NAME)

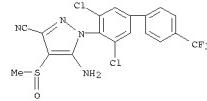
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



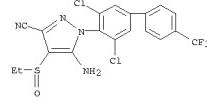
RN 207134-26-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-chloro-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl) - (CA INDEX NAME)



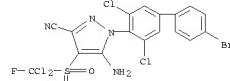
RN 207134-27-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfinyl) - (CA INDEX NAME)



RN 207134-28-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(ethylsulfinyl) - (CA INDEX NAME)

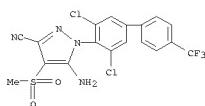


RN 207134-29-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-bromo-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((dichlorofluoromethyl)sulfonyl) - (CA INDEX NAME)

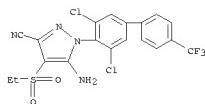


RN 207134-30-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)thio) - (CA INDEX NAME)

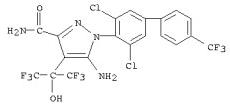
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 (trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



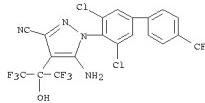
RN 207134-31-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(ethylsulfonyl)- (CA INDEX NAME)



RN 207134-32-5 HCAPLUS  
 CN 1H-Pyrazole-3-carboxamide, 5-amino-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]- (CA INDEX NAME)

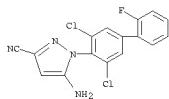


RN 207134-33-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]- (CA INDEX NAME)

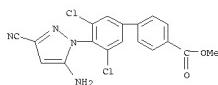


RN 207134-34-7 HCAPLUS  
 CN Acetamide, N-(3-cyano-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1H-pyrazol-5-yl)- (CA INDEX NAME)

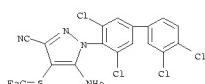
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 biphenyl)-4-yl)- (CA INDEX NAME)



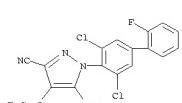
RN 207134-42-7 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-(5-amino-3-cyano-1H-pyrazol-1-yl)-3',5'-dichloro-, methyl ester (CA INDEX NAME)



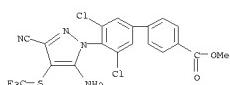
RN 207134-43-8 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',5-tetrachloro[1,1'-biphenyl]-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)



RN 207134-44-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-fluoro[1,1'-biphenyl]-4-yl)-4-(trifluoromethylthio)- (CA INDEX NAME)

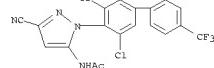


RN 207134-45-0 HCAPLUS  
 CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-(5-amino-3-cyano-4-(trifluoromethylthio)-1H-pyrazol-1-yl)-3',5'-dichloro-, methyl ester (CA INDEX NAME)

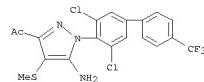


RN 207134-46-1 HCAPLUS

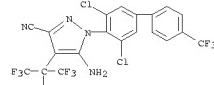
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



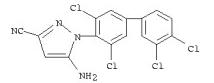
RN 207134-35-8 HCAPLUS  
 CN Ethanone, 1-[5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylthio)-1H-pyrazol-3-yl]- (CA INDEX NAME)



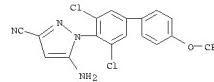
RN 207134-36-9 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]- (CA INDEX NAME)



RN 207134-39-2 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

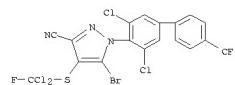


RN 207134-40-5 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (CA INDEX NAME)

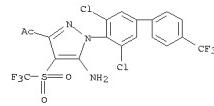


RN 207134-41-6 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-fluoro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

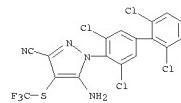
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 5-bromo-4-[(dichlorofluoromethyl)thio]-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



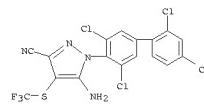
RN 207134-47-2 HCAPLUS  
 CN Ethanone, 1-[5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)sulfonyl)-1H-pyrazol-3-yl]- (CA INDEX NAME)



RN 207134-48-3 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2',3,5,6-tetrachloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)



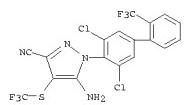
RN 207134-49-4 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2',3,4,5-tetrachloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)



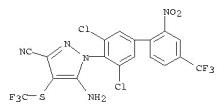
RN 207134-50-7 HCAPLUS  
 CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)

27/12/2007 Page 36

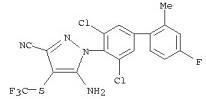
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



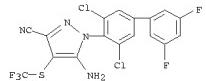
RN 207134-51-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-2'-nitro-4'-(trifluoromethyl)(1,1'-biphenyl)-4-yl]-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-52-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro-2'-methyl(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



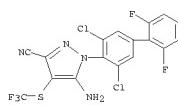
RN 207134-53-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3',5'-difluoro(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



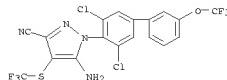
RN 207134-54-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',6'-difluoro(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



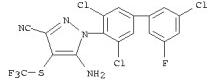
RN 207134-55-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-((trifluoromethoxy)(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



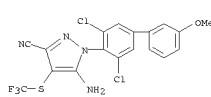
RN 207134-56-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-5'-trifluoromethylthio)- (CA INDEX NAME)



RN 207134-57-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-cyan(1,1'-biphenyl)-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)

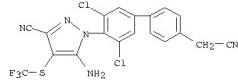


RN 207134-58-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-methoxy(1,1'-biphenyl)-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)

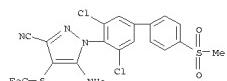


RN 207134-59-6 HCAPLUS

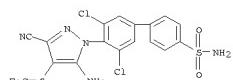
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(cyanomethyl)(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



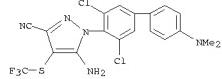
RN 207134-60-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(methysulfonyl)(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-61-0 HCAPLUS  
CN [1,1'-Biphenyl]-4-sulfonamide, 4'-(5-amino-3-cyano-4-((trifluoromethyl)thio)-1H-pyrazol-1-yl)-3',5'-dichloro- (CA INDEX NAME)



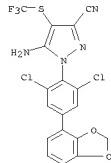
RN 207134-62-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(dimethylamino)(1,1'-biphenyl)-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



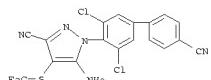
RN 207134-63-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4-(1,3-benzodioxol-4-yl)-2,6-dichlorophenyl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



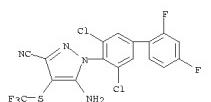
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



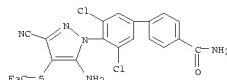
RN 207134-64-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-((trifluoromethylthio)1H-pyrazol-1-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)



RN 207134-65-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',4'-difluoro(1,1'-biphenyl)-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)



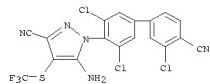
RN 207134-66-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',4'-difluoro(1,1'-biphenyl)-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)



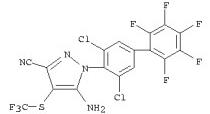
RN 207134-67-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,3',5-trichloro-4'-cyano(1,1'-biphenyl)-4-yl)-4-((trifluoromethylthio)- (CA INDEX NAME)



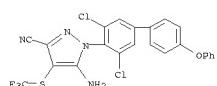
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



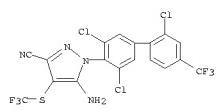
RN 207134-68-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',3',4',5',6'-pentafluorophenyl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-69-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-phenoxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



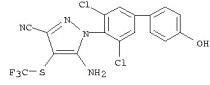
RN 207134-70-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[2',3,5-trichloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-((trifluoromethyl)thio)- (CA INDEX NAME)



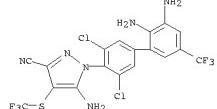
RN 207134-71-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,6-dichloro-4-(2,2-difluoro-1,3-benzodioxol-5-yl)phenyl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



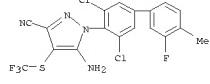
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 207134-76-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-hydroxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



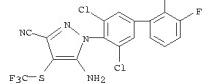
RN 207134-77-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2',3'-diamino-3,5-dichloro-5'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-78-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



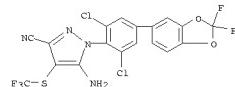
RN 207134-79-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-cyano-3'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



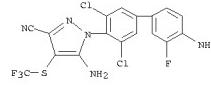
RN 207134-80-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-fluoro-3'-methyl[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



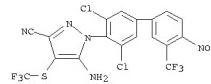
L46 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



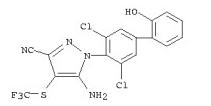
RN 207134-72-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-amino-3,5-dichloro-3'-fluoro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



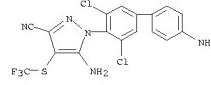
RN 207134-74-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-nitro-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



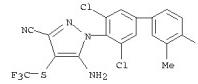
RN 207134-75-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-hydroxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



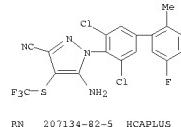
RN 207134-75-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-amino-3,5-dichloro[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



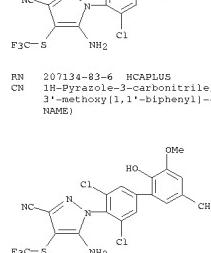
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 207134-81-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-5'-methyl[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



RN 207134-82-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro[1,1':2',1''-terphenyl]-4-yl)-4-((trifluoromethyl)thio)- (9CI) (CA INDEX NAME)



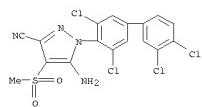
RN 207134-83-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-5'-formyl-2'-hydroxy-3'-methoxy[1,1'-biphenyl]-4-yl)-4-((trifluoromethyl)thio)- (CA INDEX NAME)



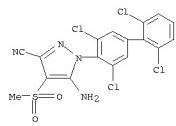
RN 207134-84-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,3',4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



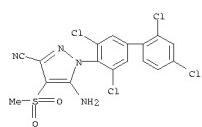
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



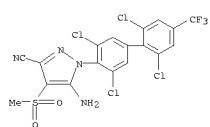
RN 207134-85-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



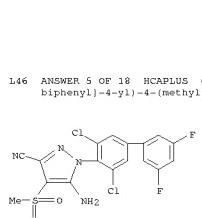
RN 207134-86-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,4',5-tetrachloro[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



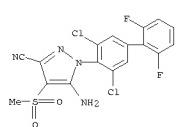
RN 207134-87-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6-tetrachloro-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



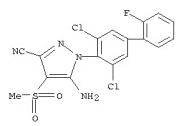
RN 207134-88-1 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethoxy)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



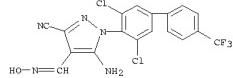
RN 207134-93-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',6'-difluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207134-94-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-fluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



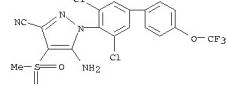
RN 207134-95-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-(hydroxymino)methyl)- (CA INDEX NAME)



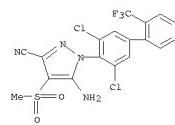
RN 207134-96-1 HCAPLUS  
CN Acetanide, N-(3-cyano-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-nitro-1H-pyrazol-5-yl)- (CA INDEX NAME)



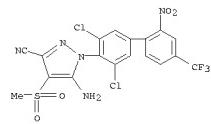
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



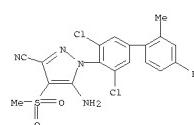
RN 207134-88-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207134-90-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-nitro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

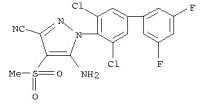


RN 207134-91-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(methylsulfonyl)-4-methyl[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

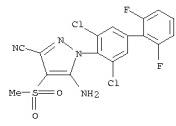


RN 207134-92-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3',5'-difluoro[1,1'-

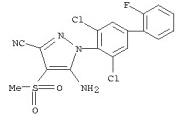
L46 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



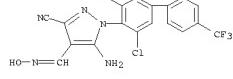
RN 207134-93-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',6'-difluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207134-94-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2'-fluoro[1,1'-biphenyl]-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



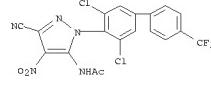
RN 207134-95-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-(hydroxymino)methyl)- (CA INDEX NAME)



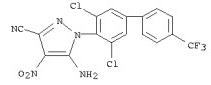
RN 207134-96-1 HCAPLUS  
CN Acetanide, N-(3-cyano-1-[3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-nitro-1H-pyrazol-5-yl)- (CA INDEX NAME)



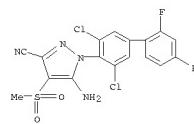
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



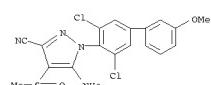
RN 207134-97-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(trifluoromethyl)[1,1'-biphenyl]-4-yl)-4-nitro- (CA INDEX NAME)



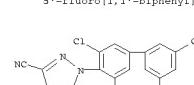
RN 207134-98-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',4'-difluoro[1,1'-



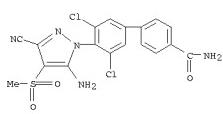
RN 207134-99-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-methoxy[1,1'-



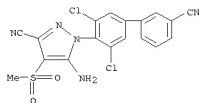
RN 207134-00-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,3',5-trichloro-9'-fluoro[1,1'-



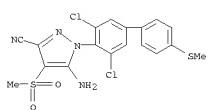
L46 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 207135-01-1 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxamide, 4'-(5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl)-3',5'-dichloro- (CA INDEX NAME)



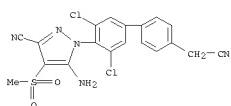
RN 207135-02-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-cyano(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-03-3 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(methylthio)(1,1'-biphenyl)-4-yl]-4-(methylsulfonyl)- (CA INDEX NAME)

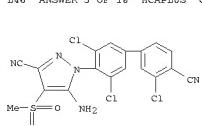


RN 207135-04-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-4'-(cyanomethyl)(1,1'-biphenyl)-4-yl]-4-(methylsulfonyl)- (CA INDEX NAME)

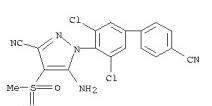


RN 207135-05-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-(methylsulfonyl)(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

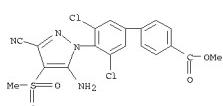
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



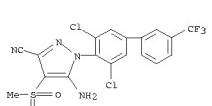
RN 207135-10-2 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-cyano(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-21-3 HCAPLUS  
CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-(5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl)-3',5'-dichloro-, methyl ester (CA INDEX NAME)



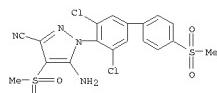
RN 207135-12-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-[3,5-dichloro-3-(trifluoromethyl)(1,1'-biphenyl)-4-yl]-4-(methylsulfonyl)- (CA INDEX NAME)



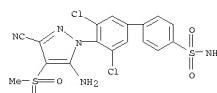
RN 207135-13-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-2',3',4',5',6'-pentafluoro(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



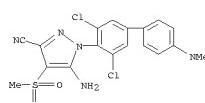
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



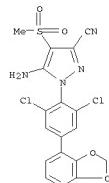
RN 207135-06-6 HCAPLUS  
CN [1,1'-Biphenyl]-4-sulfonamide, 4'-(5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl)-3',5'-dichloro- (CA INDEX NAME)



RN 207135-07-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4-(dimethylamino)(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

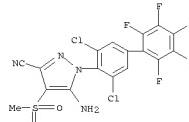


RN 207135-08-8 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4-(3,2-benzodioxol-4-yl)-2,6-dichlorophenyl)-4-(methylsulfonyl)- (CA INDEX NAME)

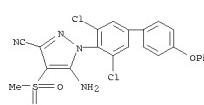


RN 207135-09-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(3,3',5-trichloro-4'-cyano(1,1'-biphenyl)-4-yl)- (CA INDEX NAME)

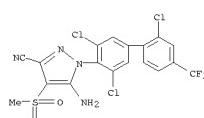
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



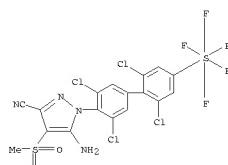
RN 207135-14-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-4'-phenoxy(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-15-7 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5-trichloro-4-(trifluoromethyl)(1,1'-biphenyl)-4-yl)- (CA INDEX NAME)

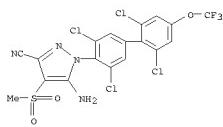


RN 207135-16-8 HCAPLUS  
CN Sulfur, (4'-(5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl)-3,3',5,5'-tetrachloro(1,1'-biphenyl)-4-yl)pentafluoro-, (OC-6-21)-(9Cl) (CA INDEX NAME)

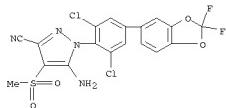


RN 207135-17-9 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-4-(methylsulfonyl)-1-(2',3,5,6'-

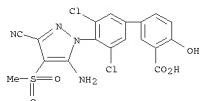
L46 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
tetrachloro-4'-(trifluoromethoxy)(1,1'-biphenyl)-4-yl)- (CA INDEX NAME)



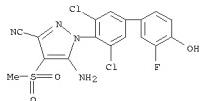
RN 207135-18-0 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,6-dichloro-4-(2,2-difluoro-1,3-benzodioxol-5-yl)phenyl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-19-1 HCAPLUS  
CN (1,1'-Biphenyl)-3-Carboxylic acid, 4'-(5-amino-3-cyano-4-(methylsulfonyl)-1H-pyrazol-1-yl)-3',5-dichloro-4-hydroxy- (CA INDEX NAME)



RN 207135-20-4 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro-4'-hydroxy(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)



RN 207135-21-5 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4'-amino-3,5-dichloro-3'-fluoro(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

DE Patents  
LA English  
FAN.CNT 1

L46 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 1996:446472 HCAPLUS  
DN 125:114605

TI Preparation of cytokine-inhibiting benzopyranopyrazole antiinflammatories and analgesics

IN Tally, John J.; Bertenshaw, Stephen R.; Graneto, Matthew J.; Rogier, Donald J.

PA G.D. Searle and Co., USA

SO PCT Int. Appl. 199 pp.

CNEN: PIXXD2

DP Patents

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO-9609204 A1 19960328 199500-US15103 19950915 <--  
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI,  
GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,  
MG, MK, MN, MM, MK, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
TJ, TM  
RW: AU, BE, CZ, DE, DK, ES, FR, GB, GR, IE, IT,  
LU, MC, NL, PT, SE, BE, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,  
SN, TD, TG  
US-5547975 A 19960820 1994US-0309291 19940920 <--  
AU-5535487 A 19960409 1995AU-0035487 19950915 <--  
US-5546932 A 19960505 1995US-0536925 19950925 <--  
US-5546932 A 19970923 1995US-0711561 19960925 <--  
US-5886016 A 19990323 1997US-0809475 19970609 <--  
PRAI 1994US-0309291 A 19940920  
1995WO-US11403 W 19950916

GS C09C 11/00; C12N 14/065; HEPG 15/12; 05

GI For diagrams, see printed CA issue

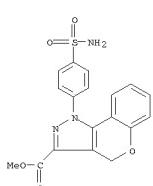
AB The title compds. [I]: A = (CH<sub>2</sub>)<sub>n</sub>X(CH<sub>2</sub>)<sub>m</sub>; X = S(O)p, O; m, n, p = 0, 1; B = fused Ph or 5- and 6-membered heterocaryl; R1 = H, halogen, haloalkyl, cyano, hydroxymethyl, formyl, alkoxy carbonyl, alkoxy, etc.; R2 = (un)substituted aryl, heteroaryl, R3 = (un)substituted alkyl, (un)substituted alkenyl, alkynyl, aryl, cyano, carbonyl, etc.; useful for treating inflammation and inflammatory-related disorders, are prepared. Thus, benzothiopyranopyrazolylbenzenesulfonamide II, m.p. 250-252°, prepared from 2-fluoroisoxole in 8 steps, demonstrated 30% edema inhibition in rat paw model at 30 mg/kg.

IT 178975-21-8P 178975-21-8P 178975-48-9P

RU BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); PCT (Patent classification);

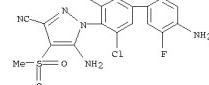
(Preparation) of benzopyranopyrazolyl antiinflammatories and analgesics)

178975-7-2 HCAPLUS  
CN [I]Benzopyran[4,3-c]pyrazole-3-carboxylic acid, 1,4-(aminosulfonyl)phenyl]-1,4-dihydro-, methyl ester (CA INDEX NAME)

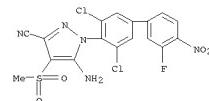


RN 178975-21-8 HCAPLUS  
CN [I]Benzothiopyran[4,3-c]pyrazole-3-carboxylic acid, 1-(4-(aminosulfonyl)phenyl)-1,4-dihydro-, methyl ester (CA INDEX NAME)

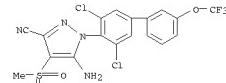
L46 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 207135-22-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-fluoro-4'-nitro(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

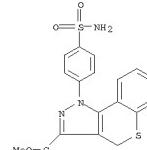


RN 207136-61-6 HCAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(3,5-dichloro-3'-trifluoromethoxy(1,1'-biphenyl)-4-yl)-4-(methylsulfonyl)- (CA INDEX NAME)

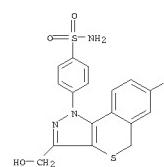


RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

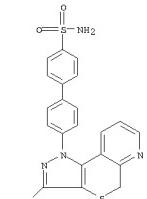
L46 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 178975-48-9 HCAPLUS  
CN Benzensesulfonamide, 4-(7-fluoro-3-(hydroxymethyl){2}benzothiopyrano[4,3-c]pyrazol-1(5H)-yl)- (CA INDEX NAME)



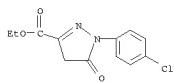
RN 178975-89-8 HCAPLUS  
CN [1,1'-Biphenyl]-4-sulfonamide, 4'-(3-(trifluoromethyl)pyrazolo[3\*,4\*:5,6]thiopyrano[3,4-b]pyridin-1(5H)-yl)- (CA INDEX NAME)



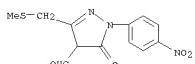
IT 178975-14-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); (preparation of benzopyranopyrazolyl antiinflammatories and analgesics)  
RN 178975-14-9 HCAPLUS  
CN [2]Benzothiopyrano[4,3-c]pyrazole-3-carboxylic acid, 1-[4-(aminosulfonyl)phenyl]-7-fluoro-1,3-dihydro-, methyl ester (CA INDEX NAME)



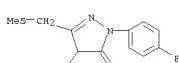
L46 ANSWER 8 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of, in synthesis of pyrazolinone herbicide or  
 agrochem. fungicide)  
 RN 5593-92-1 HCPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-chlorophenyl)-4,5-dihydro-5-oxo-,  
 ethyl ester (CA INDEX NAME)



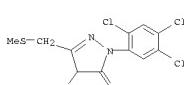
RN 118031-53-1 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-[(methylthio)methyl]-1-(4-nitropHENYL)-5-oxo- (CA INDEX NAME)



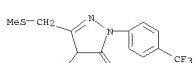
RN 118031-54-2 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-(4-fluorophenyl)-4,5-dihydro-3-[(methylthio)methyl]-5-oxo- (CA INDEX NAME)



RN 118031-55-3 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-[(methylthio)methyl]-5-oxo-1-(2,4,5-trichlorophenyl)- (CA INDEX NAME)

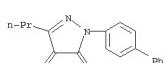


RN 118031-56-4 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-[(methylthio)methyl]-5-oxo-1-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

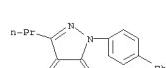


L46 ANSWER 8 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 118029-42-8 HCPLUS  
 CN 3H-Pyrazol-3-one, 4-(aminomethylene)-2-(1,1'-biphenyl)-4-yl-2,4-dihydro-5-propyl- (CA INDEX NAME)

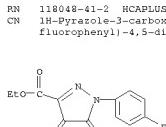


RN 118071-58-2 HCPLUS  
 CN 3H-Pyrazol-3-one, 2-(1,1'-biphenyl)-4-yl-2,4-dihydro-4-[(methylamino)methylene]-3-propyl- (CA INDEX NAME)



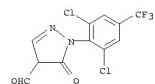
IT 118031-11-1P 118048-41-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as herbicide or agrochem. fungicide, or intermediate  
 material)  
 RN 118031-11-1 HCPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-chlorophenyl)-4-[(dimethylamino)methylene]-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)

RN 118048-41-2 HCPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 4-((dimethylamino)methylene)-1-(4-fluorophenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)

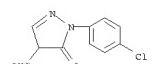


IT 118071-65-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of, in synthesis of herbicide or agrochem. fungicide)  
 RN 118071-65-1 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 4,5-dihydro-3-methyl-5-oxo-1-(2,4,6-

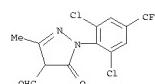
L46 ANSWER 8 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RN 118031-57-5 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4,5-dihydro-5-oxo- (CA INDEX NAME)



RN 118031-58-6 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-(4-chlorophenyl)-4,5-dihydro-5-oxo- (CA INDEX NAME)

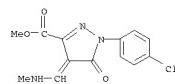


RN 118049-99-3 HCPLUS  
 CN 1H-Pyrazole-4-carboxaldehyde, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4,5-dihydro-3-methyl-5-oxo- (CA INDEX NAME)



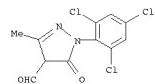
IT 118027-77-3P 118027-78-4P 118029-42-8P  
 RL: SPN (Agricultural use); BAC (Biological activity or effector, except  
 adverse); BSI (Biological study, unclassified); SPN (Synthetic  
 preparation); BIOL (Biological study); PREP (Preparation);  
 USE (Uses)  
 (prepn. of, as herbicide and agrochem. fungicide)

RN 118029-42-8 HCPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-chlorophenyl)-4,5-dihydro-4-[(methylamino)methylene]-5-oxo-, methyl ester (CA INDEX NAME)



RN 118027-78-4 HCPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-fluorophenyl)-4,5-dihydro-4-[(methylamino)methylene]-5-oxo-, ethyl ester (CA INDEX NAME)

L46 ANSWER 8 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 trichlorophenyl)- (CA INDEX NAME)



L46 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1971:449072 HCAPLUS  
 DN 75:49072  
 OREF 75:7749a,7750a  
 TI Acetophenone, analgesic, and antipyretic substituted pyrazole-4-acetic acid derivatives  
 IN Rainer, Georg; Riedel, Richard; Klema, Kurt  
 PA Byk-Gulden Lomberg Chemische Fabrik G.m.b.H.  
 SG Ger., offen.. 44 pp.  
 CODEN: GWKXBX

DT Patent  
 LA German  
 FAN,CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE-1946370	A	19710422	1963DE-1946370	19630912
DE-1946370	B2	19781109		
DE-1946370	C3	19790727		
CH-563707	A5	19770114	1973CH-0003460	19700628
CH-563707	A5	19770114	1973CH-0003464	19700828
GB-1307005	A	19700524	1970GB-0024147	19700909
NU-1301384	A	19710316	1970NL-0013384	19700910
CA-959838	A1	19741224	1970CA-0092873	19700910
SE-38521	B	19760614	1970SE-0012345	19700910
ZA-700615	A	19710522	1970ZA-0066215	19700911
FR-2070689	A5	19700527	1970FR-0033102	19700911
FR-2070689	A1	19710917		
AT---304534	B	19730110	1970AT-0008261	19700911
AT---313274	B	19740211	1972AT-0001884	19700911
JP-5103396	B	19760922	1970JP-0079421	19700911
JP-5103396	B	19760922	1970JP-0362968	19740605
US-3359862	A	19820420	1978US-0363878	19781215

PRAI 1969DE-1946370 A 19690912

1970US-0072233 A 19700914

GI For diagrams, see printed CA Issue.

AB The title compds. (I, II, III, IV, V, VI, VII, H, alkyl, allyl, cycloalkyl, and variously substituted phenyl and benzyl, R<sub>3</sub> = H, Me) were prepared by the reaction of hydrazines RNHNH<sub>2</sub> with dicarbonyl compds. RICO(R<sub>2</sub>CO)CH<sub>2</sub>NR<sub>3</sub>CO<sub>2</sub>H (II) or by hydrolysis of esters, amides, nitriles, etc., of I - VI were prepared by base-catalyzed condensation of 1,3-diketones with alkylbromoacetates. Forty examples were given and antiphlogistic and analgesic data reported.

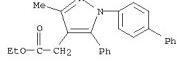
IT 32701-85-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 32701-85-6 HCAPLUS

CN Pyrazole-4-acetic acid, 1-(4-biphenyl)-3-methyl-5-phenyl-, ethyl ester (7CI) (CA INDEX NAME)



L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1967:518106 HCAPLUS

DN 6:111016

OREF 6:722307a,22310a

TI 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)-3-carbethoxy-4-(arylaazo)-5-pyrazolones

IN Green, Milton

PA Polaroid Corp.

SO U.S., 8 pp.

COPYR: USXXAM

DT Patent

LA English

FAN,CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US-3366931		19650228	1963US-0301198	19610810 <--

GI For diagrams, see printed CA Issue.

AB The title compds. (II) are valuable for use in photosensitive halide elements. 2,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> (2 g.) was diazotized and coupled with 3 g. 1-[p-(2,5-diacetoxymethylphenyl)-3-carbethoxy-5-pyrazolone. The product in 10 ml. MeOH/H<sub>2</sub>O was treated with 10 ml. NaOH for 1 min. at room temperature followed by a free solution of 0.65 g. NaOH in 25 ml. H<sub>2</sub>O, treated with N for 90 min., and precipitated with 10 ml. concentrated HCl to give I (R = 2,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, n = 2), m. 96-101°. The following I derivs. were similarly prepared (R, n, and m.p. given): 2,6-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 170-5°;

4,4'-Biphenol, 2, 200-202°; (decomposition); 4-Et<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 242-50°;

(decomposition); 2,5-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 185-86°; 1-C<sub>10</sub>H<sub>7</sub>, 2, 134-40°;

2-MeOC<sub>6</sub>H<sub>4</sub>, 2, 228-32°; 2,4-Cl(Me)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 106-13°;

2,6-Et<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 155-7°; 2,5-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 130-40°;

4-Cl(Me)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2, 143-9°; 2,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 0, 128-30°;

2,4-MeOC<sub>6</sub>H<sub>3</sub>, 3, 100-5°; and 2-F<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, 2, 110-18°;

2,4-DiMeC<sub>6</sub>H<sub>3</sub>, 2, 163-17°; 3,5-Br 16317-46-7D

IT PL: IMP (Industrial manufacture); PREP (Preparation)

(preparation of)

RN 1654-23-5 HCAPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesilylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

IT

1654-23-3P 1654-23-5P 1654-24-6P

1654-25-7D 1654-26-BD 1697-81-0P

1697-82-1B 1697-83-2B 1697-84-3P

1697-85-3B 1697-86-4B 1697-87-6P

1697-88-3D 1697-89-4P 1697-90-7P

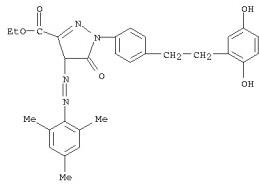
IT PL: IMP (Industrial manufacture); PREP (Preparation)

(preparation of)

RN 1654-23-5 HCAPLUS

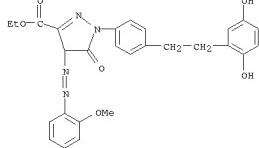
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesilylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



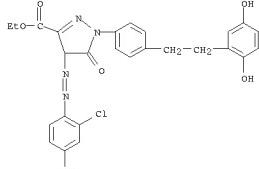
RN 1654-24-6 HCAPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesilylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-25-7 HCAPLUS

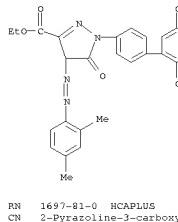
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2-chloro-p-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-26-8 HCAPLUS

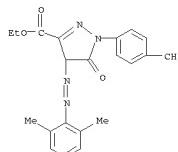
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2',5'-dihydroxy-4-biphenyl)-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1697-82-1 HCAPLUS

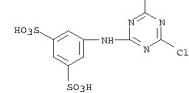
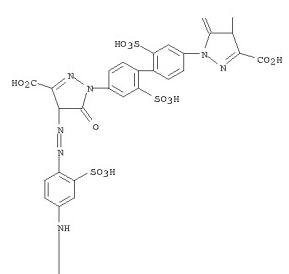
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



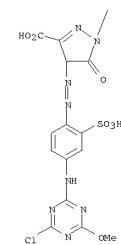
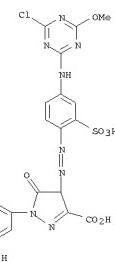
RN 1697-83-2 HCAPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

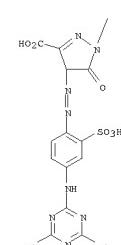
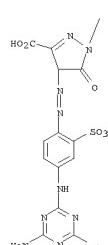
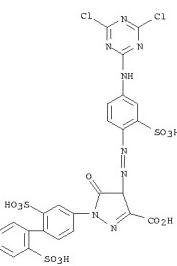
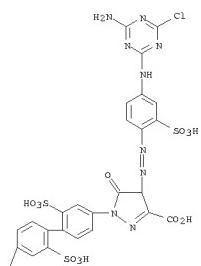


-SO3H

RN 16325-18-1 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[(4-chloro-6-methoxy-s-triazin-2-yl)amino]-2-sulfophenyl]azo]-5-oxo- (8CI) (CA INDEX NAME)



RN 16325-19-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[(4-amino-6-chloro-s-triazin-2-yl)amino]-2-sulfophenyl]azo]-5-oxo- (8CI) (CA INDEX NAME)

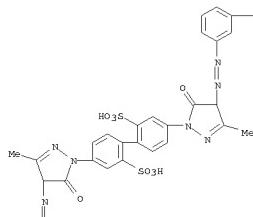


RN 16325-02-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1,1'-(2,2'-disulfo-4,4'-biphenylene)bis[4-[(4,6-dichloro-s-triazin-2-yl)amino]-2-sulfophenyl]azo]-5-oxo- (8CI) (CA INDEX NAME)

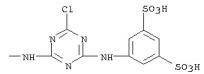
RN 29358-08-5 HCAPLUS  
CN 2,2'-Biphenyldisulfonic acid, 4,4'-bis[4-[[4-chloro-6-(3,5-disulfoanilino)-s-triazin-2-yl]amino]sulfophenyl]azo]-3-methyl-5-oxo-2-pyrazolin-1-yl]- (8CI) (CA INDEX NAME)

146 ANSWER 11 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)

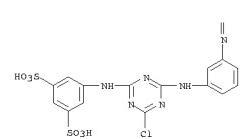
PAGE 1-A



PAGE 1-B



PAGE 2-A



2 [ D1-SO3H ]

146 ANSWER 12 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN

AN 1966:439073

DN 65:39073

OREP 65:7332a-d

TI Catalysts for the silver dye-bleach process

PA CIBA Ltd.

SO 11 pp

DI Patent

LA Unavailable

FAN,CNT

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI NL---6508680

19660110

1965NL-0008680

19650706 &lt;--

BE

PRAI

GI

AB

For diagram(s), see printed CA Issue.

H2O-insol. quinolin derivs. of quinoxaline are bleach catalysts when present in 2:1 emulsion layer at a concentration of 5-100 mg./kg. of emulsion. In an example, I (R = Me, R' = CO) (II) was prepared by passing CO over a solution of 5 g. 2,3-dimethyl-4-phenylquinoxaline in 1 l. C6H6 containing 27 g. KNO2 which was stirring and boiling under reflux for 2 hrs.

The product was filtered and washed to give II, a light gray powder m.

290° (decompose) (MeOH). Similarly prepared were I (R = Me, R' = COCH2CH2CO) (I), a red powder, m. 280° (decompose); I (R = Me, R' = COCH2CO) (II), a yellow powder, m. 195-200° (decompose).

2-nicotinimidoyl-3,4-dihydroquinazolines, a gray powder, m. 278-82° (decompose); and 2,3-dimethyl-4-(p-toluenesulfonamido)quinoxaline, a yellow powder, m. 200 (decompose). A 1% solution of II (40 ml.) in MeOH was added to 1 kg. of a red-sensitive, high-speed AgBr (II) emulsion which contained a cyan layer of developer. The emulsion layer was coated on heavy paper and dried to give a thickness of 0.1 mm. The coating was exposed to red light and then developed in a Metol-hydroquinone developer.

The material was then bleached for a few min. in 1 l. aqueous solution containing 100 g. KBr, 10 g. thiourea, and 70 ml. concentrated HCl. After washing the Ag image was redeveloped in a solution of CuSO4 in HCl, and fixed in Na2S2O3 solution

IT 1654-20-2

(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 1654-20-2 HCPLUS

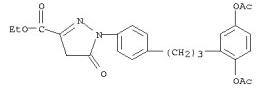
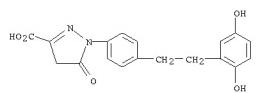
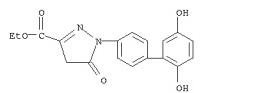
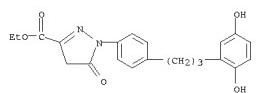
CN 2-pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

IT

1654-19-9 HCPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-[p-|3-(2,5-dihydroxyphenyl)propyl|phenyl]5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

146 ANSWER 12 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 6670-20-8 HCPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(4-[2-(2,5-dihydroxyphenyl)ethyl]phenyl)-4,5-dihydro-5-oxo- (CA INDEX NAME)RN 6670-22-0 HCPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(2',5'-dihydroxy[1,1'-biphenyl]-4-yl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)RN 6775-29-7 HCPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-|3-(2,5-dihydroxyphenyl)propyl|phenyl]5-oxo-, ethyl ester (8CI) (CA INDEX NAME)

146 ANSWER 13 OF 18 HCPLUS COPYRIGHT 2007 ACS on STN

AN 1966:439072

DN 65:39072

OREP 65:7331f-h,7332a

TI Pyrazoline derivatives

IN Johnson, Milton; Moore, Phyllis

PA Polaroid Corp.

SO 6 pp.

DI Patent

LA Unavailable

FAN,CNT

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI US---5252990

19660524

1964US-0412221

19610810 &lt;--

PRAI

GI

AB The title compds. (II), are useful as azo couplers and as photographic developing agents. 2,5-(AcO)2C6H3CH2C6H4NH2-4-HCl (34.9 g.) was diazotized and coupled with 23 g. EtO2CCH2CH2C6H4OEt to give I (R = OEt, R' = Ac, n = 2) (II), m. 179-82°. A mixture of 15.35 g. II and 75 cc. n-C6H13NH2 was refluxed under N2 for 1 hr. to give I (R = NHCH2NH3+, R' = H, n = 2) (III). A solution of 15.35 g. III in 100 ml. H2O was stirred under N2, cooled to -12.5°, treated during 5 min. with a solution of 6.0 g. NaOH in 100 ml. H2O (previously degassed), stirred 1 hr. at -3° to 3°, and acidified with 12.5 ml. 12N HCl in 500 ml. H2O to give 3.5 g. I (R = OEt, R' = H, n = 2), m. 110-14°. A solution of 20.0 g. I (R = OEt, R' = H, n = 2) in 30 ml. H2O was degassed with N2 for 20 min., treated with 9.04 g. II, 10% HCl to give I (R = OH, R' = H, n = 2) decompose 185°. The following I derivs. were similarly prepared (R, R', n, and m, p, given): OEt, Ac, 3, 148-52°; OEt, Ac, 0, 175-9°; OEt, H, 0, 0-2°.

IT 1654-20-2

(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 1654-20-2 HCPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

IT

1654-19-9 HCPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-[p-|3-(2,5-dihydroxyphenyl)propyl|phenyl]5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

IT

1654-19-9 HCPLUS

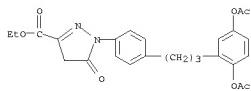
CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenyl)-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

IT

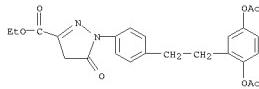
1654-19-9 HCPLUS

CN 2-Pyrazoline-3-carboxylic acid, 1-[p-|3-(2,5-dihydroxyphenyl)propyl|phenyl]5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)

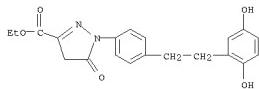
146 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



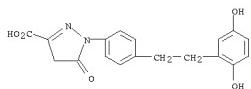
RN 1697-80-9 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(4-[2-[2,5-bis(acetoxy)phenyl]ethyl]phenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



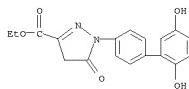
RN 6670-19-5 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(4-[2-(2,5-dihydroxyphenyl)ethyl]phenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-20-8 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(4-[2-(2,5-dihydroxyphenyl)ethyl]phenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-22-0 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(2',5'-dihydroxy[1,1'-biphenyl]-4-yl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



146 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN

AN 1965:417330 HCAPLUS

DN 63:17230

OREP 63:3094a-e Dyes for color-photographic transfer images

IN Johnson, Milton; Moore, Phyllis

PA International Polaroid Corp.

SO 47 pp.

DT Patent

LA Unavailable

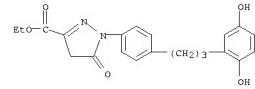
FACN,US

PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI BE-----621310 19630211 BE <-  
GB-----1005237 GB  
GB-----1005238 GB  
  
PPIA US 19650810  
GI For diagram(s), see printed CA Issue.  
AB Color couplers of the general formula I were prepared p-(2,5-(AcO)<sub>2</sub>C6H3(CH<sub>2</sub>)<sub>3</sub>C6H4)N<sub>2</sub>HCl (14.9 g.) in 200 cc. H<sub>2</sub>O added to 100 cc. acetoacetanilide (II) in 750 cc. pyridine during 0.5 hr., kept 20 hr. at room temperature, and acidified, with cooling, with 800 cc. concentrated HCl to give 23.2 g. III (X = OEt, n = 2) (IV), m. 179-82°, p-(2,5-(AcO)<sub>2</sub>C6H3(CH<sub>2</sub>)<sub>3</sub>)C6H4N<sub>2</sub>HCl diazotized and coupled with II gave similarly III (X = OEt, n = 3) (V), m. 149-50°. Similarly prepared, X = OEt, n = 1 (VI), m. 175-55°, 2,4-Me<sub>2</sub>C6H3(X = OEt, n = 1) was coupled with IV, yielded I (A = 2,4-Me<sub>2</sub>C6H3, X = OEt, n = 2) (VII), m. 96-101°. Similarly prepared the following I (X = OEt, n = 2) (A and m.p. given): 2,6-Me<sub>2</sub>C6H3, 170-5°; p-MeC6H4 (VIII), 207-11° (decomposition); 2,6-CH<sub>2</sub>C6H3, 174-5°; 2,4-CH<sub>2</sub>C6H3, 115-22° (decomposition); 2,4,6-Me<sub>3</sub>C6H3 (IX), 188-9°; 1-C10H<sub>7</sub>, 134-40°; o-MeOC6H4, 228-32°; 2,4-C1MeC6H3, 106-12°; 2,6-Pt<sub>2</sub>C6H3, 155-7°; 2,5-Me<sub>2</sub>C6H3, 130-40°; 4,2-ClMeC6H3, 143-9°. Similarly were prepared I (A = 2,3-Me<sub>2</sub>C6H3, X = OEt, n = 3), m. 180-5°; 1-C<sub>10</sub>H<sub>7</sub>-4-MeC6H3, X = OEt, n = 1, m. 128-32°; A = 2,4-Me<sub>2</sub>C6H3, X = OEt, n = 2) (XI), m. 180-5°; III (m. 84 g.) and 30 cc. EtNH<sub>2</sub> heated overnight in a sealed bomb under N on the water bath and acidified with dilute HCl yielded I (A = 2,4-Me<sub>2</sub>C6H3, X = NHET, n = 2), m. 245° (decomposition). Similarly were prepared the following I (A = 2,4,6-Me<sub>3</sub>C6H2, n = 2) (C, m.p. given): Androstanone, m.p. 210-11° (decomposition), 415, 18,800; pipericidone, 219-21°, 412, 19,000; NH<sub>2</sub>, 201.5-2.5°, 440, 17,400; NHET, --, --, I (m. 0.089 g.) in 10 cc. 2% cellulose acetate hydrophthalate in 1:1 tetrahydrofuran-Me<sub>2</sub>CO coated onto a gelatin layer on a support, the resulting element coated with a AgBrAgI emulsion, dried, and exposed to blue light on a photographic surface contact with an image-receiving layer of a 2:1 mixture of poly(vinyl alc.) and poly(4-vinylpyridine) on a baryta paper, a solution of NaOH 5.17, high-viscosity hydroxyethyl cellulose 4.03, Na<sub>2</sub>SO<sub>2</sub> 1.15, benzotriazole 2.3, and N-benzyl- $\alpha$ -picolinium bromide 2.3 g. in 100 cc. H<sub>2</sub>O spread between the two supports, air dried, and then a yellow, porous image. The color developer can also be contained in a gelatin layer. An example is given for the production of a yellow transfer image using I (A = 2,4,6-Me<sub>3</sub>C6H2, X = NHET, n = 2) as the color coupler.

IT 1654-19-9P 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester (ester) 1654-20-3P 2-Pyrazoline-3-carboxylic acid, 1-[2',5'-dihydro-4-biphenyl]-5-oxo-, ethyl ester, diacetate (ester) 1654-21-3P 2-Pyrazoline-3-carboxylic acid, 4-[p-(diethylsulfamoyl)phenyl]azo]-1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-, ethyl ester 1654-22-4P 2-Pyrazoline-3-carboxylic acid, 4-[p-(4-dihydroxyphenyl)phenyl]-5-oxo-, ethyl ester, diacetate (ester) 1654-23-5P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester 1654-24-6P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-4-[(o-methoxyphenyl)azo]-5-oxo-, ethyl ester 1654-25-7P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-, ethyl ester 1654-26-8P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1654-27-9P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1654-28-0P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester 1654-29-1P 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-

146 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

RN 6775-29-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-22-0 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-20-8 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester (CA INDEX NAME)



RN 6670-22-0 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester (CA INDEX NAME)



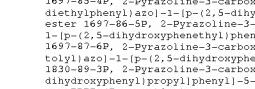
RN 6670-22-0 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester (CA INDEX NAME)



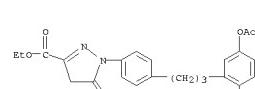
RN 1654-19-9 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester (CA INDEX NAME)



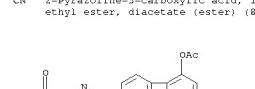
RN 1654-20-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)



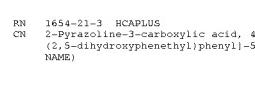
RN 1654-20-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-, ethyl ester, diacetate (ester) (8CI) (CA INDEX NAME)



RN 1654-21-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[p-(diethylsulfamoyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

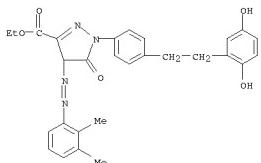


RN 1654-21-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[p-(diethylsulfamoyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

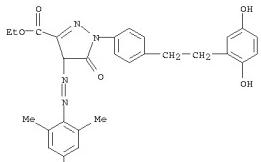


RN 1654-22-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenyl)phenyl]-5-oxo-

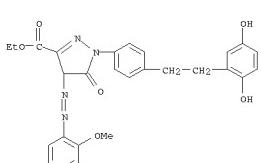
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
4-(2,3-Xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-23-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(mesitylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

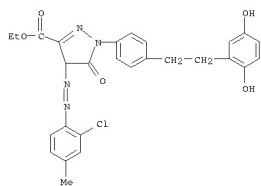


RN 1654-24-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(o-methoxyphenyl)azo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

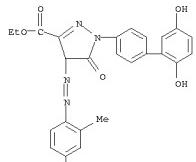


RN 1654-25-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2-chloro-p-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

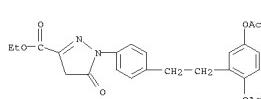
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1654-26-8 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-(2',5'-dihydroxy-4-biphenylyl)-4-(2,4-xylylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

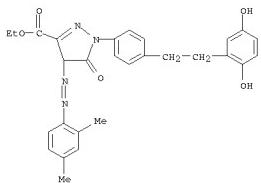


RN 1697-80-9 HCAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 1-(4-(2-[2,5-bis(acetoxy)phenyl]ethyl)phenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)

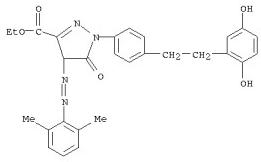


RN 1697-81-0 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(2,4-xylylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

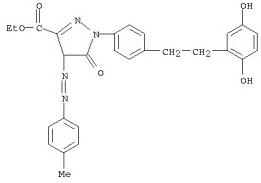
L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1697-82-1 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(2,6-xylylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



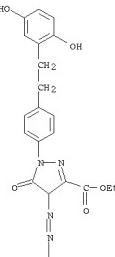
RN 1697-83-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(p-tolylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1697-84-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

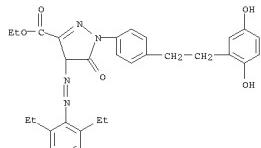
PAGE 1-A



PAGE 2-A

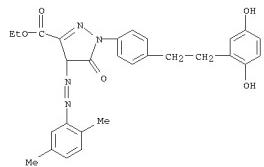


RN 1697-85-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2,6-diethylphenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

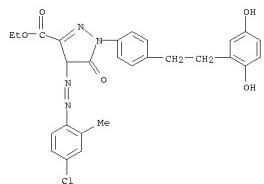


RN 1697-86-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(2,4-xylylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

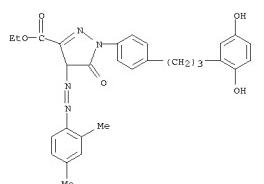
146 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 1697-87-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(4-chloro-o-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1830-89-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



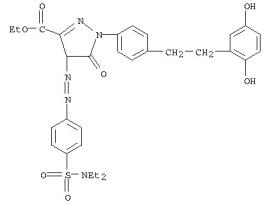
146 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RL: PREP (Preparation)

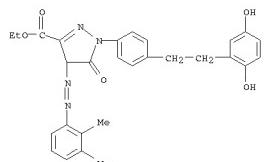
(prep. of)

RN 1654-21-3 HCAPLUS

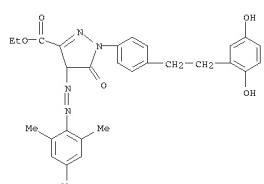
CN 2-Pyrazoline-3-carboxylic acid, 4-[(p-(diethylsulfamoyl)phenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-22-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-23-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(methylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1654-24-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(o-

146 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AN 1964:477097 HCAPLUS

DN 61:77097

OREP 61:1346a-b-13465a-b

TR Green, Milton

PA Polaroid Milton

SO 17 pp.

DI Patents

LA Available

PAN.CHI 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI US----3141772 ----- 19640721 1963US-0301181 19630809 &lt;-

PRAT ----- 19640721 19630809 &lt;-

GI For diagrams(s), see printed CA Issue.

AB Dyes of general formula I are useful as yellow dye developers for transfer photographic processing. Thus, 2 g. 2,4-Me2C6H3NH2 was diazotized and

coupled with 3 g. 1-[p-(2,5-diacetoxymethoxyphenyl)phenyl]-3-carbethoxy-5-

pyrazoline and the product hydrolyzed with aqueous NaOH in the absence of O<sub>2</sub> and reprecipitated to yield I(A = Me, Y = R, Z = Eto, n = 2).

96-101%. Similarly, other I (X = OEt) were prepared (A, Y, Z, R, E, n, and m.p. given: Me, H, H, Me, 2, 170-5%; H, H, Me, H, 2,

(III), 207-1%; (decompose); H, H, SO2NETz, H, H, 2, 242-45% (decompose); Me, H, H, Me, H, 2, 115-22% (decompose); Me, H, H, 2, 100-5%; H, H, Me, H, 2, 180-8%; H, H, CHCl<sub>3</sub> (A = Y, Z = Me, H, H, 2, 134-40%; MeO, H, H, H, Me, H, 2, 228-32%; Cl, H, Me, H, H, 2, 106 13 Et, H, H, H, Et, 2, 155-7%; Me, H, H, Me, H, 2, 130-40%; Me, H, Cl, H, H, 2, 143-5%; Me, H, Me, H, H, 0, 120-30%; Me, H, H, 2, 135-4%; Cl, H, H, H, 2, 110-3%; Et, 115-84%; and 50 ml. EtNH<sub>2</sub> combined in a 100 ml.stainless steel bomb, heated over night at steam bath temperature, the excess amine removed with a stream of N<sub>2</sub>, and the mixture acidified with dilute HCl

gave I (A = Y = D = E = H, Z = Me, X = EtNH, n = 2), decompose 245°.

Similarly, other I (A = Z = E = Me, Y = R = H, n = 2) were prepared (X, n, m.p., maximum m.p., number and name of developer, Z, 200-40%.

(Decompose), 438-18, 100; Me2N, 2, 210-11% (decompose), 415, 18,800;

N-piperidinyl, 2, 239-21%, 412, 19,000; NH2, 2, 201.5-2.5%,

440, 17,400; HO(CH2OH)2Me, 3, 162-4%, -,-; PrNH, 2, 115-17%,

-,-; NH(C2H2OH)2Me, 3, 135-40%, -,-; Me(OH)CH2NH2, 2,

206-208%.

1654-21-3P, 2-Pyrazoline-3-carboxylic acid, 4-[(p-(diethylsulfamoyl)phenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester, 1654-22-4P, 2-Pyrazoline-3-carboxylic acid, 1-(p-(2,5-dihydroxyphenethyl)phenyl)-5-oxo-4-(2,3-xylylazo)-, ethyl ester

1654-23-7P, 2-Pyrazoline-3-carboxylic acid, 4-[(p-(2,5-dihydroxyphenethyl)phenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester

1654-25-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2-chloro-p-tolyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester

1654-26-8P, 2-Pyrazoline-3-carboxylic acid, 1-(p-(2,5-dihydroxyphenethyl)phenyl)-5-oxo-4-(2,3-xylylazo)-, ethyl ester

1654-27-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2-chloro-p-tolyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester

1654-28-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester

1654-29-10P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,3-xylylazo)-, ethyl ester

1654-30-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-31-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-32-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-33-4P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-34-5P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-35-6P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-36-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-37-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-38-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-39-0P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-40-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-41-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-42-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-43-4P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-44-5P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-45-6P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-46-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-47-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-48-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-49-0P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-50-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-51-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-52-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-53-4P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-54-5P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-55-6P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-56-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-57-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-58-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-59-0P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-60-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-61-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-62-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-63-4P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-64-5P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-65-6P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-66-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-67-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-68-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-69-0P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-70-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-71-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-72-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-73-4P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-74-5P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-75-6P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-76-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-77-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-78-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-79-0P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-80-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-81-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-82-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-83-4P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-84-5P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-85-6P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-86-7P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-87-8P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

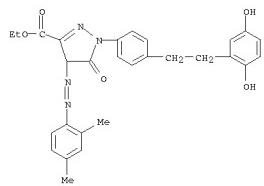
1654-88-9P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-89-0P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

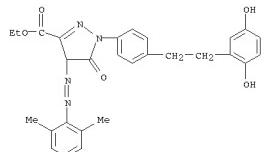
1654-90-1P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

1654-91-2P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester

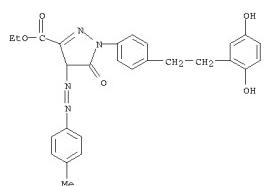
1654-92-3P, 2-Pyrazoline-3-carboxylic acid, 4-(2,6-dichlorophenyl)azo-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester



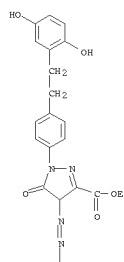
RN 1697-92-1 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,6-dimethylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



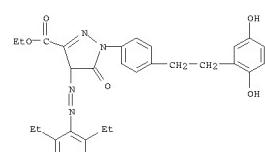
RN 1697-93-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(p-tolylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



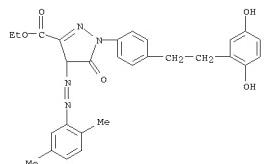
RN 1697-84-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-4-(1-naphthylazo)-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



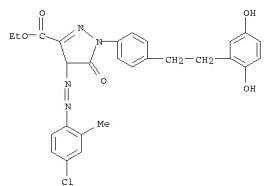
RN 1697-85-4 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(2,6-diethylphenyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



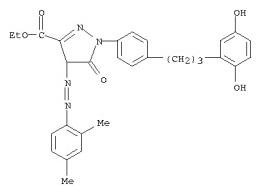
RN 1697-86-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-vinylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



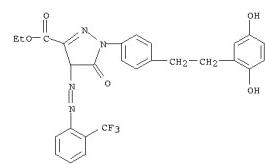
RN 1697-87-6 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 4-[(4-chloro-o-tolyl)azo]-1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1630-09-3 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(3-(2,5-dihydroxyphenyl)propyl)phenyl]-5-oxo-4-(2,4-xylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 16317-46-7 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-[(a,a,a-trifluoro-o-tolyl)azo]-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 1697-86-5 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-[p-(2,5-dihydroxyphenethyl)phenyl]-5-oxo-4-(2,5-vinylylazo)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

L46 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1948:972 HCAPLUS

DN 42:972

OREP 42:224a-g

TI 1-Pyrazolones

IN Kendall, John David; Fry, Douglas James

DT Patent

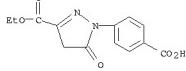
LA Unavailable

FAN,CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI GB----585780 19470224 1944GB-0023983 19441201 <--  
 AB Substituted 5-pyrazolones are obtained by the action of diazonium compds. under alkaline conditions on compds. of the type  $R^1\text{N}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$ , where  $R^1$  and  $\text{R}^2$  are groups which may be the same or different, and which may be attached to each other, such as  $\text{Ac}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{Et}$ , and  $\text{PhNHCO}_2$ . In the reaction  $\text{R}^1$  or  $\text{R}^2$  is displaced by the diazonium group and the product rearranges and condenses internally to form a 5-pyrazolone. Side reaction to form azo dyes is minimized by the use of weak alkali, such as  $\text{NaCO}_3$ ,  $\text{Na}_2\text{B}_4\text{O}_7$ ,  $\text{NaOAc}$ , or anhydrous  $\text{Na}_2\text{CO}_3$ , avoiding large excesses of the reagent. For example,  $\text{AcCO}_2\text{Et}[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  (I) ( $0.1$  mol) in  $50$  ml.  $\text{EtOH}$  was treated with the diazonium compound from  $0.1$  mol  $\text{PhNH}_2$  (II) and  $20$  g. powdered anhydrous  $\text{NaOAc}$  (or  $\text{Na}_2\text{B}_4\text{O}_7$  or  $\text{Na}_2\text{CO}_3$ ). The oil which separated on standing was extracted with  $\text{Et}_2\text{O}$ , distilled to remove  $\text{Et}_2\text{O}$ , taken up in  $200$  ml.  $\text{H}_2\text{O}$ , extracted with  $\text{Et}_2\text{O}$ , and the aqueous layer acidified. 2-( $p$ -carboxyphenyl)-5-pyrazolone (III), m. 180°, was isolated and also obtained by using  $200$  ml.  $5\%$  aqueous  $\text{CSH}_5\text{N}$  or  $\text{Et}_3\text{N}$  in place of the  $\text{EtOH}$  and  $\text{NaOAc}$ .  $(0.1$  mol) in  $200$  ml.  $50\%$  aqueous  $\text{CSH}_5\text{N}$  with  $0.05$  mol. tetratozated  $\text{p},\text{p}'-(\text{CH}_2\text{NH}_2)_2$  gave  $1,\text{l}-\langle\text{p},\text{p}'-\text{biphenylene}\rangle\text{bis}[3\text{-carboxy}-5\text{-pyrazolone}]$  (IV), m. 250°. Substitution of  $\text{AcCO}_2\text{Et}[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  for I in the reaction with diazotized  $\text{I}$  gave 1-phenyl-3-carboxy-5-pyrazolone, m. 180°. Substitution of  $\text{AcCO}_2\text{Et}[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  for I in reaction with diazotized  $\text{II}$  gave 1-phenyl-3-acetyl-5-pyrazolone, m. 110°. Substitution of  $\text{NCCH}(\text{CO}_2\text{Et})\text{CH}_2\text{CO}_2\text{Et}$  for  $\text{I}$  in the reaction with diazotized  $\text{II}$ , followed by hydrolysis of the product with boiling  $10\%$   $\text{NaOH}$ , gave 1- $p$ -carboxyphenyl-3-carboxy-5-pyrazolone, m. 180°. Substitution of  $\text{o-C}_6\text{H}_4\text{NHCO}_2\text{HCO}_2\text{Et}$  for  $\text{I}$  in the reaction with diazotized  $\text{II}$  gave the o-chloronimide of 1-phenyl-3-carboxy-5-pyrazolone, m. 82°.  $\text{V}$ , m. 156°, was obtained by the reaction of the  $\text{Na}^+$  salt of  $\text{o-C}_6\text{H}_4\text{NHCO}_2\text{HCO}_2\text{Et}$  with  $\text{ClCH}_2\text{CO}_2\text{Et}$  in  $\text{EtOH}$ . Substitution of  $1\text{-C}_6\text{H}_4\text{NO}_2\text{HCO}_2\text{Et}$  for  $\text{I}$  in the reaction with diazotized  $\text{II}$  followed by hydrolysis with hot  $50\%$   $\text{NaOH}$ , gave 1- $(1\text{-naphthyl})$ -3-carboxy-5-pyrazolone, m. 264° (decomposition). Similarly 2- $\text{C}_6\text{H}_4\text{NO}_2\text{H}$  gave 1-(2-naphthyl)-3-carboxy-5-pyrazolone, m. 264° (decomposition). Diazotized  $\text{p-H}_2\text{NCH}_2\text{CO}_2\text{NH}_2$  and  $\text{I}$  gave 1- $p$ -sulfamylphenyl-3-carboxy-5-pyrazolone, m. 197°; diazotized  $\text{p-H}_2\text{NCH}_2\text{CO}_2\text{NH}_2$  and  $\text{I}$  gave 1- $p$ -nitrophenyl-3-carboxy-5-pyrazolone, m. 152°; and diazotized  $\text{p-O}_2\text{NC}_6\text{H}_4\text{NH}_2$  and  $\text{I}$  gave 1-( $p$ -nitrophenyl)-3-carboxy-5-pyrazolone, m. 288°.

IT 137566-04-2 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-(4-carboxyphenyl)-4,5-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



L46 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1943:14455 HCAPLUS

DN 37:14455

OREP 37:23471, 2348a-1,2349a-c

TI Reactions between aromatic diazo compounds and compounds of the type of alkylacetocetic esters

AU Feoflikatov, V. V.

SO Bull. acad. sci. U. R. S. S., Classe sci. chim. (1941) 521-30

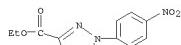
DT Journal

LA English

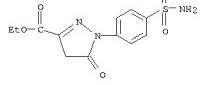
GP Diagram(s), see printed CA Issue.

AB The reaction between aromatic diazo compds. with compds. of the alkylacetocetic ester type was investigated further. It was shown that this reaction is quite general and has many practical applications: it was used as a basis of a new synthesis of  $\alpha$ -amino acids, derivs. of 5-pyrazolones, and esters of cyclic  $\beta$ -ketoacids, as well as cyclic  $\beta$ -keto nitriles. In the previous published results (CA 34: 1971.1, 72835; 4, 36066), high-yield syntheses were presented for alanine, valine, leucine, isoleucine and phenylalanine. This reaction was investigated further with syntheses of more complex acids. Thus, propionic acid ester, m. 146°,  $\text{d}146.5$ ,  $\text{nD}146.220$ , on condensation with  $\text{Ph}$  diazotate gave 77.4% butyrylformic acid, phenylhydrazone, m. 102°, which on reduction gave 77.4% of valine, m. 304-5°. Butyacetobenzoate ester, b14 110-13°,  $\text{d}416.5$ ,  $0.9539$ ,  $\text{nD}16.5$ ,  $\text{l}429$ , on condensation with  $\text{Ph}$  diazotate gave 65% valerylformic acid, m. 146°,  $\text{d}146.5$ ,  $\text{nD}146.220$ , which on reduction gave 88.1% of leucine, m. 294-6°,  $\text{d}416.5$ ,  $\text{nD}146.220$ , which was condensed with sodioacetocetate ester to give p-methoxybenzylacetocetate ester (76%), b3 157-8°,  $\text{d}417.2$ ,  $\text{l}1.1033$ ,  $\text{d}17.2$ ,  $\text{l}1.5077$ ; its phenylhydrazone was obtained in 75% yield (isolated in 2 forms: colorless, m. 158-9°, and yellow, m. 157°); reduction of the latter gave 64% p-methoxyphenylalanine, m. 262°, boiling in  $\text{H}_2\text{O}$  at  $100^\circ$  with  $\text{HI}$  gave 96% tyrosine, m. 309-10°. Benzylacetocetate ester and isobutylacetocetocetic ester used with other diazotized compds. ( $\text{o}$ - and  $\text{p}$ -toluidines,  $\text{n}$ - and  $\text{p}$ -nitroanilines, sulfamic acid and 1- and 2-naphthylhydrazones) in the corresponding hydrazones in 55-75% yields. (No data given.) The formation of phenylhydrazones in the scheme:  $\text{EtCO}_2\text{CH}(\text{CH}_2\text{CO}_2\text{H})(\text{COMe})\text{CO}_2\text{Et} + \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2] + \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2] + \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  was used for preparation of a large number of derivs. of this type; thus, using  $\text{o}$ -toluidine, yellow crystalline product, m. 95-6°, m-toluidine, orange m. 146-7°, m-toluidine, red,  $\text{l}429$ , sulfamic acid,  $\text{l}429$ , gave the mono- $\beta$ -ester of toluidine, red,  $\text{l}429$ , sulfamic acid,  $\text{l}429$ , which yielded a yellow crystalline product, m. 258-60°, p-nitroanisole, orange, m. 246-8°, naphthalonic acid, red, infusible product; benzidine, red, infusible product. It was also shown that bromotetronic acid condenses with any diazotates, to yield directly arylhydrazones (and from these, the bisphenylhydrazones) in the yields given. Thus, the following  $\alpha$ -amino- $\beta$ -ketobutyrolactones were prepared: pentenyl, m. 214° (from  $\text{AcOH}$ ), m-tolyl, m. 172° (from  $\text{EtOH}$ ), 1-naphthyl, m. 148-9° (from  $\text{AcOH}$ ), and 2-naphthyl, m. 222°. It was shown that  $\text{CH}_2=\text{COCH}_2\text{CH}_2\text{CO}_2\text{Et}$  with  $\text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  which had been prepared by the scheme:  $\text{CH}_2=\text{CH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{Et} + \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2] \rightarrow \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]\text{CH}_2=\text{CH}_2\text{CH}_2\text{CO}_2\text{Et}$  yielded, in turn, the phenylhydrazone, m. 85-87°,  $\text{d}403$ ,  $\text{l}429$ , isolated in 2 forms: m. 89.5-90° and 142-3°; this on hydrolysis gave the phenylhydrazone of the acid, also in 2 forms, m. 144-5° and 131-2°; reduction of the latter gave 66%  $\alpha$ -aminohomocamphoric acid, m. 215-16°. From cyclohexanone, in the same way, as the corresponding phenyl- and 1-naphthylhydrazones of mono- $\beta$ -keto adipate phenylhydrazone of  $\alpha$ -ketoadipic acid,  $\alpha$ -aminoadipic acid were obtained (no data given). Et camphorcarboxylate, b18 162-3°,  $\text{d}413$ ,  $1.0646$ ,  $\text{nD}13$  1.4750,  $\text{d}417.5$ ,  $1.0741$ , which by the scheme,  $\text{CH}_2=\text{CH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{Et} + \text{EtCO}_2\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2 + \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  yielded, in turn, the phenylhydrazone, m. 85-87°,  $\text{d}403$ ,  $\text{l}429$ , readily hydrolyzed to p-nitrophenylhydrazone of ketochamphoric acid, m. 166°, which on reduction gave  $\alpha$ -aminohomocamphoric acid, m. 185°. Insofar as the group  $\text{CO}_2\text{Et}$  corresponds to the group  $\text{CN}$  in condensations with diazo compds., the reaction with aromatic diazo compds. of the type  $\text{R}^1\text{N}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$  was partly investigated and preliminary experiments showed that the cleavage of the  $\text{CO}_2\text{Et}$  group appears to react according to the following scheme:  $\text{CH}_2=\text{CH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{Et} + \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2] \rightarrow \text{ArN}^+[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]\text{CH}_2=\text{CH}_2\text{CH}_2\text{CO}_2\text{Et} + \text{HO}_2\text{CCH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{Et} + (\text{ArN}^+)[\text{CH}(\text{CH}_2\text{CO}_2\text{Et})_2]$ . The rupture of a C-C bond occurring in

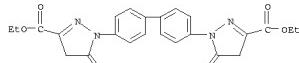
L46 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 RN 389076-25-9 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-1-(4-nitrophenyl)-5-oxo-, ethyl ester (CA INDEX NAME)



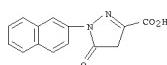
RN 856613-08-6 HCAPLUS  
 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-( $p$ -sulfamoylphenyl)-, ethyl ester (7CI) (CA INDEX NAME)



RN 857185-39-8 HCAPLUS  
 2-Pyrazoline-3-carboxylic acid, 1,1'-(4,4'-biphenylene)bis[5-oxo-, diethyl ester (5CI) (CA INDEX NAME)



RN 857217-04-0 HCAPLUS  
 2-Pyrazoline-3-carboxylic acid, 1-[2-naphthyl]-5-oxo- (5CI) (CA INDEX NAME)

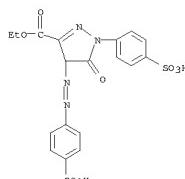


L46 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 reactions of this general type is remarkable particularly because of the mild conditions employed (weakly alk. aq. or dil. alc. soln. at 0°). A suggestion is made as to the mechanism of C-C rupture in biological processes.

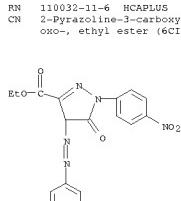
IT 1359-4-5 1H-Pyrazoline-3-carboxylic acid, 5-oxo-1-p-sulfonylphenyl-4-p-sulfonylphenylazo-, ethyl ester, di-Na salt 110032-11-6P,  
 2-Pyrazoline-3-carboxylic acid, 1-( $p$ -nitrophenyl)-4-( $p$ -nitrophenylazo)-5-oxo-, ethyl ester 858265-49-3P, 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-( $p$ -tolylazo)-4-( $p$ -hydroxy-4-biphenyl)-4-oxo-, ethyl ester

Pt: PREP (Preparation of)

RN 6359-65-5 HCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-( $p$ -sulfonylphenyl)-, 3-ethyl ester, disodium salt (9CI) (CA INDEX NAME)

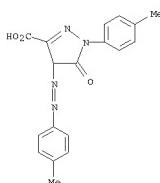


RN 110032-11-6 HCAPLUS  
 2-Pyrazoline-3-carboxylic acid, 1-( $p$ -nitrophenyl)-4-( $p$ -nitrophenylazo)-5-oxo-, ethyl ester (6CI) (CA INDEX NAME)

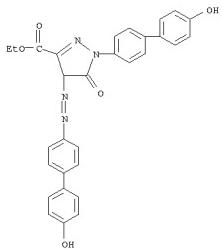


RN 858265-49-3 HCAPLUS  
 2-Pyrazoline-3-carboxylic acid, 5-oxo-1-p-tolyl-4-p-tolylazo- (4CI) (CA INDEX NAME)

146 ANSWER 17 OF 18 HCPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 858265-56-2 HCAPLUS  
CN 2-Pyrazoline-3-carboxylic acid, 1-(4'-hydroxy-4-biphenylyl)-4-(4'-hydroxy-4-biphenylylazo)-5-oxo-, ethyl ester (4CI) (CA INDEX NAME)



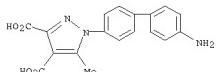
146 ANSWER 18 OF 18 HCPLUS COPYRIGHT 2007 ACS ON STN  
 AN 1926-4890 HCPLUS  
 20:4890  
 ORED: 20:5989-1..599a-c  
 II New azo combinations with diacetosuccinic ester and the Billow synthesis  
 of substituted pyrazoles  
 AU Billow, E.  
 SO Berichts der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen  
 (1925), S88, 1926-32  
 CODEN: BDCBBD; ISSN: 0365-9488  
 DT Journal  
 LA Available  
 GJ For diagram(s), see printed CA Issue.  
 AB Cf. Ber. 33, 262 (1900); Diniroth, C. A., 3, 439. Di-Et [acetyl-p-phenylene-diamino-azido]diacetosuccinate, RN:NC(OEt)<sub>2</sub>[CH]C(=O)OC<sub>2</sub>H<sub>5</sub> (I, R = AcNHCH<sub>2</sub>H<sub>4</sub>), from diazotized p-ACNHCH<sub>2</sub>H<sub>4</sub>N<sub>2</sub> in HCl with [CHACCO<sub>2</sub>H<sub>5</sub>]<sub>2</sub> and NaOAc in cold aqueous alc., m. 134°, does not give the Billow reaction; it is easily soluble in water, decomposes in alc., and is soluble in alc. or AcOH or hot formic acid. In di-Et 5-methyl-1-(acetamidophenyl)pyrazole-3,4-dicarboxylic (best prepared by treating the original coupling mixture directly with steam), m. 158°, which is hydrolyzed by boiling alc. KOH to the free acid, m. 264° (decomposition), can be titrated very accurately, but not precisely, with AcOH from aqueous solns. of the di-K salt; the 1-(acetamidophenyl) salt from the above soln. with 1-naphthol, m. 176° (decomposition), is distinctly amphoteric; although it forms no solid HCl salt, its suspensions in mineral acids yield clear diazo solns. (II) which under suitable conditions can be coupled with keto-enol desmotropes of the type of AcCH<sub>2</sub>CO<sub>2</sub>Et, yielding with AcCH<sub>2</sub>CO<sub>2</sub>Et itself EtEt[5-methylpyrazole-3,4-dicarboxylic] (III), m. 155° (decomposition), and with AcCH<sub>2</sub>CONH<sub>2</sub> the corresponding acetooctanamide, decomps. about 266°, which cannot be titrated and whose C<sub>3</sub>H<sub>3</sub> salt in H<sub>2</sub>O gives pts. with metallic salts. Di-Et [5-methylpyrazole-3,4-dicarboxy-1-p-anilino-azo]acetonecarboxylate, m. 155° (decomposition), and with EtCO<sub>2</sub>Et the yellow hydrated tetra-Et salt, m. 158° (decomposition). Anhydride, m. 195° (decomposition), decomposes 65% at 230°, containing 49.12-49.23% C, 3.89% H and 19.40% N. P-*AcNHCO<sub>2</sub>H<sub>5</sub>*, m. 195-6°, is obtained in 57% yield from 25.2 g. com. distilled (C<sub>6</sub>H<sub>5</sub>NOH)<sub>2</sub> and 14 g. C<sub>2</sub>H<sub>5</sub> in CHCl<sub>3</sub> in the cold. Di-Et [N-monooxyacetyl-azido]diacetosuccinate, m. 163° (decomposition), does not give the Billow reaction. Tetra-Et [5-methyl-1-(p-acetylaminophenyl)pyrazole-3,4-dicarboxylic] (IV), m. 158°, free acid, m. 285° (decomposition); K H salt, decomps. 325°, di-K salt; 1-p-aminodiphenyl acid, m. 237° (decomposition). Tetra-Et diaacetosuccinate[azobenzene-azido]diacetosuccinate, from tetrazotized (C<sub>6</sub>H<sub>5</sub>NOH)<sub>2</sub> and [CHACCO<sub>2</sub>H<sub>5</sub>]<sub>2</sub>, faintly yellow, m. 152° (decomposition), does not give the Billow reaction. Tetra-Et [5-methyl-1-(p-acetamidophenyl)pyrazole-3,4-dicarboxylic], m. 141°, free acid, m. 302° (decomposition); tetra-Et salt; di-K salt; does not change up to 350°.

II 861382-90-3, 3,4-Pyrazoledicarboxylic acid, 1-(p-(p-acetamidophenyl)phenyl)-5-methyl- (and derivative)

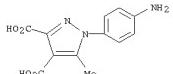
PN 861382-90-3, HCPLUS

CN 3,4-Pyrazoledicarboxylic acid, 1-(p-(p-acetamidophenyl)phenyl)-5-methyl- (2CI) (CA INDEX NAME)

L46 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
RN 861369-86-0 HCAPLUS  
CN 3,4-Bzyazolescarboxylic acid, 1-(p-(p-aminophenyl)phenyl)-5-methyl- (2CI)  
(CD, INDEX NAME)



RN 861585-74-2 HCAPLUS  
CN 3,4-Pyrazoledicarboxylic acid, 1-(p-aminophenyl)-5-methyl- (2CI) (CA INDEX NAME)



IT 861369-86-0P, 3,4-Pyrazoledicarboxylic acid, 1-[p-(p-aminophenyl)phenyl]-5-methyl- 861585-74-2P, 3,4-Pyrazoledicarboxylic acid, 1-(p-aminophenyl)-3-methyl-  
RL: PRB (Preparation)  
(preparation of)

27/12/2007 Page 53

=> b casre

FILE 'CASREACT' ENTERED AT 15:32:19 ON 27 DEC 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 23 Dec 2007 VOL 147 ISS 26

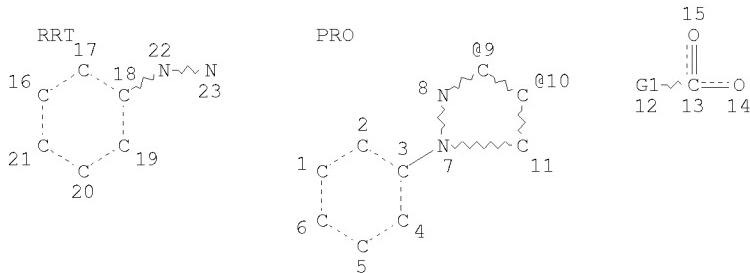
New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
 \*  
 \* CASREACT now has more than 13.8 million reactions \*  
 \*  
 \*\*\*\*\*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que sta 143  
 L41 STR



VAR G1=9/10  
 NODE ATTRIBUTES:  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E3 RC AT 11  
 CONNECT IS E1 RC AT 23  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 23  
 STEREO ATTRIBUTES: NONE  
 L43 126 SEA FILE=CASREACT SSS FUL L41 ( 1128 REACTIONS)

100.0% DONE 10611 VERIFIED 1128 HIT RXNS 126 DOCS  
 SEARCH TIME: 00.00.03

=> d his

(FILE 'HOME' ENTERED AT 13:41:21 ON 27 DEC 2007)

FILE 'REGISTRY' ENTERED AT 13:41:30 ON 27 DEC 2007

ACT J905C1/A  
-----  
L1 STR  
L2 134263 SEA FILE=REGISTRY SSS FUL L1  
-----  
L3 STR L1  
L4 5 L3 SAM SUB=L2  
L5 882 L3 FULL SUB=L2  
SAV TEM J905C2/A L5

FILE 'HCAPLUS' ENTERED AT 13:45:32 ON 27 DEC 2007  
L6 163 L5  
E SCHADT O/AU  
L7 23 E3-4  
E SCHIEMANN K/AU  
L8 42 E3-4  
E VAN AMSTERDAM C/AU  
L9 53 E3-6  
E BARTOSZYK G/AU  
L10 122 E4-8  
E SEYFRIED C/AU  
L11 230 E3-6,E12-E14  
L12 34803 MERCK/CS,PA  
L13 2 L6 AND L7-11  
L14 4 L6 AND L12  
L15 2 L14 NOT L13  
SEL HIT RN 2

FILE 'REGISTRY' ENTERED AT 13:48:33 ON 27 DEC 2007  
L16 70 E1-70

FILE 'HCAPLUS' ENTERED AT 13:52:45 ON 27 DEC 2007  
L17 161 L6 NOT L13  
L18 136 L17 AND PD<=20030308  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 13:54:24 ON 27 DEC 2007  
L19 385 E1-385  
L20 6378 L2 AND (NC4 OR NC2NC2)/ES  
L21 2 (PIPERAZINE OR PYRROLIDINE)/CN  
L22 5645 (16.136.1 OR 46.383.1)/RID AND L20

FILE 'HCAPLUS' ENTERED AT 14:35:12 ON 27 DEC 2007  
L23 1045 L22  
L24 769 L23 AND PD<=20030308  
L25 7 L24 AND L18  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:37:50 ON 27 DEC 2007  
L26 116 E386-501  
DEL SEL Y  
L27 3 L19 AND (C24H26CLN3O4 OR C26H24N2O2)  
L28 2 L26 AND NC2NC2/ES AND 46.156.30/RID  
L29 1 C22H24BRN7O AND L28  
L30 4 L27,L29

FILE 'HCAPLUS' ENTERED AT 14:48:07 ON 27 DEC 2007  
L31 4 L30

FILE 'REGISTRY' ENTERED AT 14:49:55 ON 27 DEC 2007  
L32 STR L1  
L33 50 L32 SAM SUB=L2  
L34 8106 L32 FULL SUB=L2  
SAV TEM J905C7/A L34

FILE 'HCAPLUS' ENTERED AT 14:55:52 ON 27 DEC 2007  
L35 4110 L34 AND PD<=20030308  
L36 21 L35 AND L18  
L37 1082 L35 AND L34 (L)PREP+NT/RL

L38            17 L18 AND L37  
FILE 'CASREACT' ENTERED AT 15:11:50 ON 27 DEC 2007  
L39            STR L32  
L40            9 L39  
L41            STR L39  
L42            6 L41  
L43            126 L41 FULL  
               SAV TEM J905C8/A L43  
L44            80 L43 AND PD<=20030308  
L45            46 L43 NOT L44  
  
FILE 'HCAPLUS' ENTERED AT 15:28:26 ON 27 DEC 2007  
L46            18 L31,L38  
L47            0 L46 AND L7-11  
  
=>